

Xenoy* Resin XD1622

Europe-Africa-Middle East: COMMERCIAL

XENOY XD1622 is a high flow PC+PBT blend with good low impact properties and good resistance to solvent and gasoline contact. XENOY XD1622 has been specially developed for clear coated exterior body panels.

Property

Taber Abrasion, CS-17, 1 kg 30 mg/1000cy SABIC Method Tensile Stress, yield, 50 mm/min 55 MPa ISO 527 Tensile Stress, break, 50 mm/min 40 MPa ISO 527 Tensile Strain, preak, 50 mm/min 4.5 % ISO 527 Tensile Strain, preak, 50 mm/min 4.5 % ISO 527 Tensile Strain, preak, 50 mm/min 200 MPa ISO 527 Tensile Modulus, 1 mm/min 2100 MPa ISO 278 Flexural Stress, yield, 2 mm/min 75 MPa ISO 178 IMPACT Value Unit Standard Izod Impact, unnotched 80*10*4+23°C NB k.J/m² ISO 180/1U Izod Impact, unnotched 80*10*4+23°C 40 k.J/m² ISO 180/1U Izod Impact, unotched 80*10*4 23°C 40 k.J/m² ISO 180/1A Izod Impact, unotched 80*10*4 29°C 40 k.J/m² ISO 180/1A Izod Impact, unotched 80*10*4 sp=62mm 45 k.J/m² ISO 180/1A Izod Impact, notched 80*10*4 sp=62mm NB k	TYPICAL PROPERTIES ⁽¹⁾			
Tensile Stress, yield, 50 mm/min 55 MPa ISO 527 Tensile Stress, break, 50 mm/min 40 MPa ISO 527 Tensile Strain, break, 50 mm/min 4.5 % ISO 527 Tensile Strain, break, 50 mm/min >80 % ISO 527 Tensile Modulus, 1 mm/min 2200 MPa ISO 527 Flexural Soltus, 2 mm/min 75 MPa ISO 178 Flexural Modulus, 2 mm/min 75 MPa ISO 178 IPecural Modulus, 2 mm/min 2100 MPa ISO 178 IPecural Modulus, 2 mm/min 2100 MPa ISO 178 IPecural Modulus, 2 mm/min 210 MPa ISO 178 IPecural Modulus, 2 mm/min 210 MPa ISO 180/17 Izod Impact, unotched 80*10*4+23°C NB KJ/m² ISO 180/14 Izod Impact, notched 80*10*4+23°C 40 KJ/m² ISO 180/1A Izod Impact, notched 80*10*4+23°C 40 KJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 KJ/m² ISO 180/1A Izod Im	MECHANICAL	Value	Unit	Standard
Tensile Stress, break, 50 mm/min 40 MPa ISO 527 Tensile Strain, yield, 50 mm/min 4.5 % ISO 527 Tensile Modulus, 1 mm/min 2200 MPa ISO 527 Tensile Modulus, 1 mm/min 2200 MPa ISO 527 Flexural Stress, yield, 2 mm/min 75 MPa ISO 178 Flexural Modulus, 2 mm/min 2100 MPa ISO 2039-1 IMPACT Value Unit Standard Izod Impact, unnotched 80°10'4 +23°C NB KJ/m² ISO 180/1U Izod Impact, unnotched 80°10'4 +23°C NB KJ/m² ISO 180/1A Izod Impact, notched 80°10'4 +23°C 40 KJ/m² ISO 180/1A Izod Impact, notched 80°10'4 +23°C 40 KJ/m² ISO 180/1A Izod Impact, notched 80°10'4 +23°C 40 KJ/m² ISO 180/1A Izod Impact, notched 80°10'4 +23°C 40 KJ/m² ISO 180/1A Izod Impact, notched 80°10'4 -30°C 15 KJ/m² ISO 180/1A Izod Impact, notched 80°10'4 sp=62mm 45 KJ/m² ISO 179/1eA	Taber Abrasion, CS-17, 1 kg	30	mg/1000cy	SABIC Method
Tensile Strain, yield, 50 mm/min 4.5 % ISO 527 Tensile Strain, break, 50 mm/min >80 % ISO 527 Tensile Modulus, 1 mm/min 2200 MPa ISO 527 Flexural Stress, yield, 2 mm/min 75 MPa ISO 178 Flexural Modulus, 2 mm/min 2100 MPa ISO 178 Hardness, H358/30 95 MPa ISO 2039-1 IMPACT Value Unit Standard Izod Impact, unnotched 80°10°4 +23°C NB k.J/m² ISO 180/10 Izod Impact, notched 80°10°4 +23°C 40 k.J/m² ISO 180/1A Izod Impact, notched 80°10°4 +23°C 40 k.J/m² ISO 180/1A Izod Impact, notched 80°10°4 +23°C 40 k.J/m² ISO 180/1A Izod Impact, notched 80°10°4 +23°C 40 k.J/m² ISO 180/1A Izod Impact, notched 80°10°4 +23°C 15 k.J/m² ISO 180/1A Izod Impact, notched 80°10°4 +23°C 45 k.J/m² ISO 180/1A Izod Impact, notched 80°10°4 sp=62mm 45 k.J/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80°10°4 sp=62mm NB k.J/m² <td>Tensile Stress, yield, 50 mm/min</td> <td>55</td> <td>MPa</td> <td>ISO 527</td>	Tensile Stress, yield, 50 mm/min	55	MPa	ISO 527
Tensile Strain, break, 50 mm/min >80 % ISO 527 Tensile Modulus, 1 mm/min 2200 MPa ISO 527 Flexural Stress, yield, 2 mm/min 75 MPa ISO 178 Flexural Modulus, 2 mm/min 2100 MPa ISO 178 Hardness, H358/30 95 MPa ISO 2039-1 IMPACT Value Unit Standard Izod Impact, unnotched 80*10*4 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80*10*4 +23°C 400 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 400 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 sp=62mm 45 kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² <t< td=""><td>Tensile Stress, break, 50 mm/min</td><td>40</td><td>MPa</td><td>ISO 527</td></t<>	Tensile Stress, break, 50 mm/min	40	MPa	ISO 527
Tensile Modulus, 1 mm/min 2200 MPa ISO 527 Flexural Stress, yield, 2 mm/min 75 MPa ISO 178 Flexural Modulus, 2 mm/min 2100 MPa ISO 178 Hardness, H356/30 95 MPa ISO 2039-1 IMPACT Value Unit Standard Izod Impact, unnotched 80*10*4 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80*10*4 +23°C A40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 sp=62mm 45 kJ/m² ISO 179/1A Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1A Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1A Charpy 30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1A Charpy 30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1A Charpy 30°C, Unnotch Edgew 80*10*4 sp=62mm NB	Tensile Strain, yield, 50 mm/min	4.5	%	ISO 527
Flexural Stress, yield, 2 mm/min 75 MPa ISO 178 Flexural Modulus, 2 mm/min 2100 MPa ISO 178 Hardness, H358/30 95 MPa ISO 2039-1 IMPACT Value Unit Standard Izod Impact, unnotched 80*10*4 +23°C NB k.//m² ISO 180/1U Izod Impact, nonched 80*10*4 +23°C 40 k.//m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 k.//m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 k.//m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 15 k.//m² ISO 180/1A Izod Impact, notched 80*10*4 sp=62mm 40 k.//m² ISO 180/1A Izod Impact, notched 80*10*4 sp=62mm 45 k.//m² ISO 179/1eA Charpy 23°C, U-notch Edgew 80*10*4 sp=62mm NB k.//m² ISO 179/1eA Charpy 23°C, U-notch Edgew 80*10*4 sp=62mm NB k.//m² ISO 179/1eA Thermal Conductivity 0.18 W/m²C ISO 8302 CTE, 23°C to 80°C, 16w 9.5E-05 1/°C	Tensile Strain, break, 50 mm/min	>80	%	ISO 527
Flexural Modulus, 2 mm/min 2100 MPa ISO 178 Hardness, H358/30 95 MPa ISO 2039-1 IMPACT Value Unit Standard Izod Impact, unnotched 80*10*4 +23°C NB k.//m² ISO 180/1U Izod Impact, unnotched 80*10*4 -30°C NB k.//m² ISO 180/1U Izod Impact, notched 80*10*4 -30°C 40 k.//m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 k.//m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 k.//m² ISO 180/1A Izod Impact, notched 80*10*4 sp=62mm 45 k.//m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm NB k.//m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB k.//m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB k.//m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB k.//m² ISO 179/1eU THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m	Tensile Modulus, 1 mm/min	2200	MPa	ISO 527
Hardness, H358/30 95 MPa ISO 2039-1 IMPACT Value Unit Standard Izod Impact, unnotched 80*10*4 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80*10*4 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 sp=62mm 45 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU Thermal Conductivity 0.18 W/m~°C ISO 802 ISO 179/1eU Thermal Conductivity	Flexural Stress, yield, 2 mm/min	75	MPa	ISO 178
IMPACT Value Unit Standard Izod Impact, unnotched 80*10*4 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80*10*4 +23°C NB kJ/m² ISO 180/1U Izod Impact, unnotched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 sp=62mm 45 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m~C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 1359-2 Ball Pressure Test, 75°C +/- 2°C PASSES -	Flexural Modulus, 2 mm/min	2100	MPa	ISO 178
Izod Impact, unnotched 80*10*4 +23°C NB kJ/m2 ISO 180/1U Izod Impact, unnotched 80*10*4 -30°C NB kJ/m2 ISO 180/1U Izod Impact, notched 80*10*4 -30°C 40 kJ/m2 ISO 180/1A Izod Impact, notched 80*10*4 0°C 40 kJ/m2 ISO 180/1A Izod Impact, notched 80*10*4 0°C 15 kJ/m2 ISO 180/1A Izod Impact, notched 80*10*4 -30°C 15 kJ/m2 ISO 180/1A Izod Impact, notched 80*10*4 -30°C 15 kJ/m2 ISO 179/1eA Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm 40 kJ/m2 ISO 179/1eA Charpy -30°C, U-notch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU THERMAL Value Unit Standard THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m-°C ISO 130/2 Citat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 306 HDT/ke, 1.8 MPa Edgew 120*10*4 sp=100mm 95 °C <td< td=""><td>Hardness, H358/30</td><td>95</td><td>MPa</td><td>ISO 2039-1</td></td<>	Hardness, H358/30	95	MPa	ISO 2039-1
Izod Impact, unnotched 80*10*4 +33°C NB kJ/m² ISO 180/1U Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 kJ/m² ISO 180/1A Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm 45 kJ/m² ISO 179/1eA Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm 20 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m-°C ISO 180/2 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 1359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Ae PHYSICAL Unit Standar	ІМРАСТ	Value	Unit	Standard
Izod Impact, notched 80°10°4 +23°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80°10°4 0°C 40 kJ/m² ISO 180/1A Izod Impact, notched 80°10°4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80°10°4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80°10°4 -20°C 15 kJ/m² ISO 180/1A Izod Impact, notched 80°10°4 sp=62mm 45 kJ/m² ISO 179/1eA Charpy -30°C, V-notch Edgew 80°10°4 sp=62mm 20 kJ/m² ISO 179/1eA Charpy -30°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Gunotch Edgew 80°10°4 sp=62mm NB kJ/m² ISO 179/1eU THERMAL Value Unit Standard ISO 1305 </td <td>Izod Impact, unnotched 80*10*4 +23°C</td> <td>NB</td> <td>kJ/m²</td> <td>ISO 180/1U</td>	Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 0°C 40 kJ/m2 ISO 180/1A Izod Impact, notched 80*10*4 -20°C 15 kJ/m2 ISO 180/1A Izod Impact, notched 80*10*4 -30°C 15 kJ/m2 ISO 180/1A Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm 45 kJ/m2 ISO 179/1eA Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1e4 Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1e4 Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1e4 Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1e4U Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1e4U Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1e4U THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m-°C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 11359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 600695-10-2 Vicat So	Izod Impact, unnotched 80*10*4 -30°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 -20°C 15 kJ/m2 ISO 180/1A Izod Impact, notched 80*10*4 -30°C 15 kJ/m2 ISO 180/1A Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm 45 kJ/m2 ISO 179/1eA Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm 20 kJ/m2 ISO 179/1eA Charpy 23°C, U-notch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU THERMAL Value Unit Standard ISO 179/1eU Thermal Conductivity 0.18 W/m-°C ISO 8302 ISO 1350-2 Standard 115 °C ISO 1305-2 IBI IBI Pressure Test, 75°C +/- 2°C ISO 306 ISO 609 <t< td=""><td>Izod Impact, notched 80*10*4 +23°C</td><td>40</td><td>kJ/m²</td><td>ISO 180/1A</td></t<>	Izod Impact, notched 80*10*4 +23°C	40	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C 15 kJ/m2 ISO 180/1A Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm 45 kJ/m2 ISO 179/1eA Charpy 30°C, V-notch Edgew 80*10*4 sp=62mm 20 kJ/m2 ISO 179/1eA Charpy 30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy 30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy 30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy 30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m2 ISO 179/1eU THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m-°C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 1359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 -1 </td <td>Izod Impact, notched 80*10*4 0°C</td> <td>40</td> <td>kJ/m²</td> <td>ISO 180/1A</td>	Izod Impact, notched 80*10*4 0°C	40	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80°10°4 sp=62mm 45 kJ/m2 ISO 179/1eA Charpy 30°C, V-notch Edgew 80°10°4 sp=62mm 20 kJ/m2 ISO 179/1eA Charpy 23°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m2 ISO 179/1eU Charpy -30°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m2 ISO 179/1eU THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m-°C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 11359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120°10°4 sp=100mm 95 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 -1 % SABIC Method Density 0.5 % <t< td=""><td>Izod Impact, notched 80*10*4 -20°C</td><td>15</td><td>kJ/m²</td><td>ISO 180/1A</td></t<>	Izod Impact, notched 80*10*4 -20°C	15	kJ/m²	ISO 180/1A
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm 20 kJ/m² ISO 179/1eA Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m-°C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 11359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Mold Shrinkage on Tensile Bar, flow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³	Izod Impact, notched 80*10*4 -30°C	15	kJ/m²	ISO 180/1A
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm NB kJ/m² ISO 179/1eU THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m-°C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 11359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Be PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Moisture Absorption (23°C/sor KH) 0.15 % ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivit	Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	45	kJ/m²	ISO 179/1eA
Charpy -30°C, Unnotch Edgew 80°10°4 sp=62mm NB kJ/m² ISO 179/1eU THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m °C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 11359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 75/Be HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Mold Shrinkage on Tensile Bar, flow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Moisture Absorption (23°C/s0% RH) 0.15 % ISO 6133 Met Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 <tr< td=""><td>Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm</td><td>20</td><td>kJ/m²</td><td>ISO 179/1eA</td></tr<>	Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	20	kJ/m²	ISO 179/1eA
THERMAL Value Unit Standard Thermal Conductivity 0.18 W/m-°C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 11359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 306 HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 75 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Met Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard	Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	NB	kJ/m²	ISO 179/1eU
Thermal Conductivity 0.18 W/m-°C ISO 8302 CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 11359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 306 HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 75 °C ISO 75/Ae PHYSICAL Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.6 - 0.9 % SABIC Method Mold Shrinkage on Tensile Bar, xflow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm	NB	kJ/m²	ISO 179/1eU
CTE, 23°C to 80°C, flow 9.5E-05 1/°C ISO 11359-2 Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 306 HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 75 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.6 - 0.9 % SABIC Method Mold Shrinkage on Tensile Bar, xflow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	THERMAL	Value	Unit	Standard
Ball Pressure Test, 75°C +/- 2°C PASSES - IEC 60695-10-2 Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 306 HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 75 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Mold Shrinkage on Tensile Bar, xflow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Molt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Thermal Conductivity	0.18	W/m-°C	ISO 8302
Vicat Softening Temp, Rate B/50 115 °C ISO 306 Vicat Softening Temp, Rate B/120 120 °C ISO 306 HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 75 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Density 0.6 - 0.9 % SABIC Method Water Absorption, (23°C/sat) 0.5 % ISO 62 Molt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	CTE, 23°C to 80°C, flow	9.5E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/120 120 °C ISO 306 HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 75 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Mold Shrinkage on Tensile Bar, xflow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.15 % ISO 62 Melt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Ball Pressure Test, 75°C +/- 2°C	PASSES	-	IEC 60695-10-2
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm 95 °C ISO 75/Be HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm 75 °C ISO 75/Ae PHYSICAL Value Unit Standard Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Mold Shrinkage on Tensile Bar, xflow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Melt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Vicat Softening Temp, Rate B/50	115	°C	ISO 306
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm75°CISO 75/AePHYSICALValueUnitStandardMold Shrinkage on Tensile Bar, flow (2)0.7 - 1%SABIC MethodMold Shrinkage on Tensile Bar, xflow (2)0.6 - 0.9%SABIC MethodDensity1.22g/cm³ISO 1183Water Absorption, (23°C/sat)0.5%ISO 62Moisture Absorption (23°C / 50% RH)0.15%ISO 62Melt Volume Rate, MVR at 250°C/2.16 kg12cm³/10 minISO 1133ELECTRICALValueUnitStandardVolume Resistivity>1.E+14Ohm-cmIEC 60093	Vicat Softening Temp, Rate B/120	120	°C	ISO 306
PHYSICALValueUnitStandardMold Shrinkage on Tensile Bar, flow (2)0.7 - 1%SABIC MethodMold Shrinkage on Tensile Bar, xflow (2)0.6 - 0.9%SABIC MethodDensity1.22g/cm³ISO 1183Water Absorption, (23°C/sat)0.5%ISO 62Moisture Absorption (23°C / 50% RH)0.15%ISO 62Melt Volume Rate, MVR at 250°C/2.16 kg12cm³/10 minISO 1133ELECTRICALValueUnitStandardVolume Resistivity>1.E+14Ohm-cmIEC 60093	HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	95	°C	ISO 75/Be
Mold Shrinkage on Tensile Bar, flow (2) 0.7 - 1 % SABIC Method Mold Shrinkage on Tensile Bar, xflow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Mold Shrinkage on Tensile Bar, xflow (2) 0.15 % ISO 1183 Water Absorption, (23°C/sat) 0.15 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	75	°C	ISO 75/Ae
Mold Shrinkage on Tensile Bar, xflow (2) 0.6 - 0.9 % SABIC Method Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	PHYSICAL	Value	Unit	Standard
Density 1.22 g/cm³ ISO 1183 Water Absorption, (23°C/sat) 0.5 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Mold Shrinkage on Tensile Bar, flow (2)	0.7 - 1	%	SABIC Method
Water Absorption, (23°C/sat) 0.5 % ISO 62 Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Mold Shrinkage on Tensile Bar, xflow (2)	0.6 - 0.9	%	SABIC Method
Moisture Absorption (23°C / 50% RH) 0.15 % ISO 62 Melt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Density	1.22	g/cm ³	ISO 1183
Melt Volume Rate, MVR at 250°C/2.16 kg 12 cm³/10 min ISO 1133 ELECTRICAL Value Unit Standard Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Water Absorption, (23°C/sat)	0.5	%	ISO 62
ELECTRICALValueUnitStandardVolume Resistivity>1.E+14Ohm-cmIEC 60093	Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62
Volume Resistivity >1.E+14 Ohm-cm IEC 60093	Melt Volume Rate, MVR at 250°C/2.16 kg	12	cm³/10 min	ISO 1133
· · · · · · · · · · · · · · · · · · ·	ELECTRICAL	Value	Unit	Standard
Surface Resistivity, ROA >1.E+15 Ohm IEC 60093	Volume Resistivity	>1.E+14	Ohm-cm	IEC 60093
	Surface Resistivity, ROA	>1.E+15	Ohm	IEC 60093

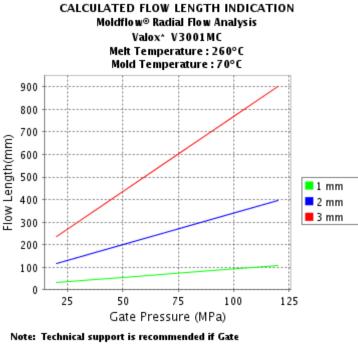
Dielectric Strength, in oil, 3.2 mm	17	kV/mm	IEC 60243-1
Relative Permittivity, 50/60 Hz	3.3	-	IEC 60250
Relative Permittivity, 1 MHz	3.1	-	IEC 60250
Dissipation Factor, 50/60 Hz	0.002	-	IEC 60250
Dissipation Factor, 1 MHz	0.02	-	IEC 60250
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Compliant, 94HB Flame Class Rating (3)(4)	1.5	mm	UL 94 by GE

Source GMD, last updated:12/14/1999

Source GMD, last updated:12/14/1999

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	90 - 100	°C
Drying Time	2 - 4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	255 - 270	°C
Nozzle Temperature	250 - 265	°C
Front - Zone 3 Temperature	250 - 270	°C
Middle - Zone 2 Temperature	240 - 265	°C
Rear - Zone 1 Temperature	230 - 250	°C
Hopper Temperature	40 - 60	°C
Mold Temperature	60 - 80	°C



Pressure is greater than 80 MPa. Contact your local representative. © Moldflow is a registered trademark of the Moldflow Corporation.

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PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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