

Geloy* Resin XTWE265

Americas: COMMERCIAL

Highly weatherable Geloy ASA profile extrusion grade for processes with simple or no calibration hardware.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 50 mm/min	38	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	29	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	4	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	37	%	ASTM D 638
Tensile Modulus, 5 mm/min	1870	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	56	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1880	MPa	ASTM D 790
Tensile Stress, yield, 50 mm/min	37	MPa	ISO 527
Tensile Stress, break, 50 mm/min	29	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3	%	ISO 527
Tensile Strain, break, 50 mm/min	40	%	ISO 527
Tensile Modulus, 1 mm/min	1900	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	53	MPa	ISO 178
Flexural Modulus, 2 mm/min	1900	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, notched, 23°C	260	J/m	ASTM D 256
Izod Impact, notched, -30°C	-	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	35	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	26	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	-	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	18	kJ/m ²	ISO 179/1eA
THERMAL	Value	Unit	Standard
Vicat Softening Temp, Rate B/50	82	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	84	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.2E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.3E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.2E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.3E-04	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	85	°C	ISO 306
Vicat Softening Temp, Rate B/120	87	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	75	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.1	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.5 - 0.7	%	SABIC Method
Melt Flow Rate, 220°C/10.0 kgf	5.2	g/10 min	ASTM D 1238
Density	1.1	g/cm ³	ISO 1183
Water Absorption, (23°C/sat)	0.55	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0.15	%	ISO 62
Melt Volume Rate, MVR at 220°C/5.0 kg	5	cm ³ /10 min	ISO 1133

Processing

Parameter	Value	Unit
Profile Extrusion		
Drying Temperature	80 - 90	°C
Drying Time	3 - 6	hrs
Drying Time (Cumulative)	12	hrs
Minimum Moisture Content	0.02	%
Melt Temperature	225 - 255	°C
Barrel - Zone 1 Temperature	205 - 215	°C
Barrel - Zone 2 Temperature	215 - 230	°C
Barrel - Zone 3 Temperature	220 - 240	°C
Barrel - Zone 4 Temperature	225 - 245	°C
Adapter Temperature	225 - 245	°C
Die Temperature	225 - 245	°C
Calibrator Temperature	15 - 65	°C

Source GMD, last updated:03/09/2006

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

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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