



Xylex * Resin EXXX0087

Americas: DEVELOPMENTAL

Impact modified Xylex with good ductility for eyewear frames, mobile phone housings etc

Property

sile Stress, yld, Type I, 50 mm/min sile Stress, brk, Type I, 50 mm/min sile Strain, yld, Type I, 50 mm/min sile Strain, brk, Type I, 50 mm/min sile Strain, brk, Type I, 50 mm/min sile Modulus, 5 mm/min tural Stress, yld, 1.3 mm/min, 50 mm span tural Modulus, 1.3 mm/min, 50 mm span	7alue 49 53 5 >150 1700	Unit MPa MPa %	Standard ASTM D 638 ASTM D 638 ASTM D 638
sile Stress, brk, Type I, 50 mm/min sile Strain, yld, Type I, 50 mm/min sile Strain, brk, Type I, 50 mm/min sile Strain, brk, Type I, 50 mm/min sile Modulus, 5 mm/min tural Stress, yld, 1.3 mm/min, 50 mm span tural Modulus, 1.3 mm/min, 50 mm span	53 5 >150	MPa %	ASTM D 638
sile Strain, yld, Type I, 50 mm/min sile Strain, brk, Type I, 50 mm/min sile Modulus, 5 mm/min tural Stress, yld, 1.3 mm/min, 50 mm span tural Modulus, 1.3 mm/min, 50 mm span	5 >150	%	
sile Strain, brk, Type I, 50 mm/min sile Modulus, 5 mm/min tural Stress, yld, 1.3 mm/min, 50 mm span tural Modulus, 1.3 mm/min, 50 mm span	>150		ASTM D 638
sile Modulus, 5 mm/min 1 tural Stress, yld, 1.3 mm/min, 50 mm span tural Modulus, 1.3 mm/min, 50 mm span 1		%	42 LINI D 020
cural Stress, yld, 1.3 mm/min, 50 mm span cural Modulus, 1.3 mm/min, 50 mm span	1700		ASTM D 638
cural Modulus, 1.3 mm/min, 50 mm span 1		MPa	ASTM D 638
	75	MPa	ASTM D 790
·	1790	MPa	ASTM D 790
sile Stress, yield, 50 mm/min	48	MPa	ISO 527
sile Stress, break, 50 mm/min	44	MPa	ISO 527
sile Strain, yield, 50 mm/min	5	%	ISO 527
sile Strain, break, 50 mm/min	130	%	ISO 527
sile Modulus, 1 mm/min 1	1700	MPa	ISO 527
rural Stress, yield, 2 mm/min	72	MPa	ISO 178
cural Modulus, 2 mm/min 1	1750	MPa	ISO 178
PACT V	/alue	Unit	Standard
Impact, notched, 23°C	900	J/m	ASTM D 256
Impact, notched, -30°C	700	J/m	ASTM D 256
rumented Impact Total Energy, 23°C	68	J	ASTM D 3763
Impact, notched 80*10*4 +23°C	68	kJ/m²	ISO 180/1A
rpy 23°C, V-notch Edgew 80*10*4 sp=62mm	84	kJ/m²	ISO 179/1eA
ERMAL V	/alue	Unit	Standard
T, 0.45 MPa, 3.2 mm, unannealed	99	°C	ASTM D 648
T, 1.82 MPa, 3.2mm, unannealed	87	°C	ASTM D 648
E, -40°C to 40°C, flow 8.7	7E-05	1/°C	ASTM E 831
E, -40°C to 40°C, xflow 8.4	4E-05	1/°C	ASTM E 831
at Softening Temp, Rate B/120	105	°C	ISO 306
Γ/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	82	°C	ISO 75/Af
YSICAL V	/alue	Unit	Standard
cific Gravity	1.2	-	ASTM D 792
d Shrinkage, flow, 3.2 mm 0.3	3 - 0.4	%	SABIC Method
Flow Rate, 265°C/2.16kg	11	g/10 min	ASTM D 1238
sity	1.2	g/cm³	ISO 1183
Volume Rate, MVR at 265°C/2.16 kg	12	cm³/10 min	ISO 1133
TICAL	/alue	Unit	Standard
t Transmission	86	%	ASTM D 1003

Source GMD, last updated:11/02/2006

Processing

Injection Molding	Value	Unit
Drying Temperature	65 - 80	°C
Drying Time	3 - 5	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	250 - 270	°C
Nozzle Temperature	250 - 270	°C
Front - Zone 3 Temperature	250 - 270	°C
Middle - Zone 2 Temperature	245 - 270	°C
Rear - Zone 1 Temperature	245 - 260	°C
Mold Temperature	45 - 60	°C
Back Pressure	0.1 - 0.5	MPa
Screw Speed	20 - 100	rpm
Shot to Cylinder Size	40 - 80	%
Vent Depth	0.013 - 0.02	mm

Source GMD, last updated:11/02/2006

Parts may initially appear hazy directly from the mold, but will clear upon reaching ambient temperature.

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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