

SABIC Innovative Plastics Lexan® EX2078X PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan® EX2078X polycarbonate resin, MVR (300°C/1.2kg) 3 cm³/10min, high viscosity, branched, extrusion, flame retardant, halogen free per DIN VDE 0472 Part 815, mold release, UV stabilized, translucent color. Material enables a fine surface texture when extruded in sheet, pipe and profiles.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-EX2078X-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	0.150 %	0.150 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.35 %	0.35 %	ISO 62
Melt Index of Compound	3.0 g/10 min	3.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	
	6.0 g/10 min	6.0 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 2.16 kg, Temperature 300 °C	@Load 4.76 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	50 mm/min; ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	50 mm/min; ISO 527
Elongation at Yield	7.0 %	7.0 %	50 mm/min; ISO 527
Tensile Modulus	2.45 GPa	355 ksi	1 mm/min; ISO 527
Flexural Yield Strength	95.0 MPa	13800 psi	2 mm/min; ISO 178
Flexural Modulus	2.25 GPa	326 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*3; ISO 180/1A
	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	NB	NB	80*10*3; ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Unnotched	NB	NB	10*3 sp=62mm; ISO 179/1eB
	@Temperature -30.0 °C	@Temperature -22.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	0.800 J/cm²	3.81 ft-lb/in²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	286 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	128 °C	262 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	140 °C	284 °F	Rate B/120; ISO 306
	148 °C	298 °F	Rate B/50; ISO 306
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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