

SABIC Innovative Plastics Lexan® ADX1016R PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Lexan Copolymer resin with improved chemical resistance, available only in limited colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-ADX1016R-PC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Melt Index of Compound	8.0 g/10 min @Load 1.20 kg, Temperature 300 °C	8.0 g/10 min @Load 2.65 lb, Temperature 572 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	50 mm/min; ISO 527
Tensile Strength, Yield	64.0 MPa	9280 psi	50 mm/min; ISO 527
Elongation at Break	79 %	79 %	50 mm/min; ISO 527
Elongation at Yield	7.0 %	7.0 %	50 mm/min; ISO 527
Tensile Modulus	2.29 GPa	332 ksi	1 mm/min; ISO 527
Flexural Yield Strength	88.0 MPa	12800 psi	2 mm/min; ISO 178
Flexural Modulus	2.25 GPa	326 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	51.0 kJ/m ²	24.3 ft-lb/in ²	80*10*3; ISO 180/1A
	23.0 kJ/m ² @Temperature -30.0 °C	10.9 ft-lb/in ² @Temperature -22.0 °F	80*10*3; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*3; ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	80*10*3; ISO 180/1U
Charpy Impact Unnotched	NB	NB	Edgew 80*10*3 sp=62mm; ISO 179/1eU
	NB	NB	Edgew 80*10*3 sp=62mm; ISO

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	179/1eA Comments
Charpy Impact, Notched	5.00 J/cm ²	23.8 ft-lb/in ²	Edgew 80*10*3 sp=62mm; ISO 179/1eA
	2.40 J/cm ²	11.4 ft-lb/in ²	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 1.8 MPa (264 psi)	108 °C	226 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	125 °C	257 °F	Rate B/50; ISO 306
	126 °C	259 °F	Rate B/120; ISO 306

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