

SABIC Innovative Plastics Lexan® JK500 PC+ABS (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

10% GR, ECO conforming FR, PC+ABS for thinwall molding applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Lexan-JK500-PCABS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0045 cm/cm	0.0030 - 0.0045 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 260 °C	@Load 4.76 lb, Temperature 500 °F	
	33 g/10 min	33 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D638
	70.0 MPa	10200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D638
	70.0 MPa	10200 psi	5 mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	5 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.1 %	2.1 %	5 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.82 GPa	699 ksi	5 mm/min; ASTM D638
	5.25 GPa	761 ksi	1 mm/min; ISO 527
Flexural Strength	115 MPa	16700 psi	2 mm/min; ISO 178

Mechanical Properties	117 MPa Metric	17000 psi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Flexural Yield Strength	115 MPa	16700 psi	2 mm/min; ISO 178
Flexural Modulus	4.34 GPa	629 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.59 GPa	666 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.15 J/cm	5.90 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	21.0 kJ/m ²	9.99 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 °C	9.59 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 µm/m-°C @Temperature 23.0 - 80.0 °C	23.9 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
	43.2 µm/m-°C @Temperature -40.0 - 40.0 °C	24.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature -40.0 - 40.0 °C	40.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	83.0 µm/m-°C @Temperature 23.0 - 80.0 °C	46.1 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C @Thickness 3.20 mm	205 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C @Thickness 3.20 mm	190 °F @Thickness 0.126 in	unannealed; ASTM D648
	93.0 °C @Thickness 6.40 mm	199 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	100 °C	212 °F	Rate B/120; ISO 306
	110 °C	230 °F	Rate B/50; ASTM D1525

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B
Flammability, UL94	V-0 @Thickness 0.990 mm	V-0 @Thickness 0.0390 in	UL 94

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