

SABIC Innovative Plastics LNP THERMOCOMP Lexan_JK2000 PC+ABS

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

Material Notes:

LNP* Thermocomp* Lexan_JK2000 compound is a 22% GR, ECO-compliant FR, PC+ABS for thinwall molding applications.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-LexanJK2000-PCABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00050 - 0.0015 cm/cm	0.00050 - 0.0015 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	22 g/10 min	22 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 260 Â°C	@Load 4.76 lb, Temperature 500 Â°F	
	36 g/10 min	36 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 Â°C	@Load 2.65 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	5 mm/min; ISO 527
	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D638
	59.0 MPa	8560 psi	5 mm/min; ISO 527
Elongation at Break	2.8 %	2.8 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.5 %	2.5 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.37 GPa	1070 ksi	5 mm/min; ASTM D638
	7.66 GPa	1110 ksi	1 mm/min; ISO 527
	103 MPa	14900 psi	1.3 mm/min, 50 mm span; ASTM

Flexural Strength Mechanical Properties	Metric	English	D790 Comments
	106 MPa	15400 psi	2 mm/min; ISO 178
Flexural Yield Strength	107 MPa	15500 psi	2 mm/min; ISO 178
Flexural Modulus	6.89 GPa	999 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.27 GPa	1050 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.31 J/cm	6.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	23.0 kJ/mÂ²	10.9 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	10.0 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
	28.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	16.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	61.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	34.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	76.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	42.2 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	92.0 Â°C @Thickness 3.20 mm	198 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	86.0 Â°C @Thickness 3.20 mm	187 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	89.0 Â°C @Thickness 6.40 mm	192 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	93.0 Â°C	199 Â°F	Rate B/120; ISO 306

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

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