

SABIC Innovative Plastics LNP Thermocomp 9X06477 SPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS) , Syndiotactic Polystyrene (SPS) with Glass or Carbon Fiber

Material Notes:

LNP* Thermocomp* 9X06477 is a compound based on Syndiotactic Polystyrene resin containing Glass Fiber. Characteristics of this grade is Heat Stabilized. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-9X06477-SPS.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
	1.21 g/cc	0.0437 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.080 %	0.080 %	23 ^o C / 50% RH; ISO 62
	0.060 %	0.060 %	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	Type I, 5 mm/min; ASTM D 638
	80.0 MPa	11600 psi	5 mm/min; ISO 527
Elongation at Break	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D 638
	1.1 %	1.1 %	5 mm/min; ISO 527
Tensile Modulus	7.97 GPa	1160 ksi	1 mm/min; ISO 527
	8.57 GPa	1240 ksi	50 mm/min; ASTM D 638
Flexural Strength	117 MPa	17000 psi	1.3 mm/min, 50 mm span; ASTM D 790
	127 MPa	18400 psi	ISO 178
Flexural Modulus	7.45 GPa	1080 ksi	2 mm/min; ISO 178
	7.69 GPa	1120 ksi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.460 J/cm @Temperature 23.0 Â°C	2.77 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.13 J/cm @Temperature 23.0 Â°C	5.86 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	17.0 kJ/mÂ² @Temperature 23.0 Â°C	8.09 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	3.00 J @Temperature 23.0 Â°C	2.21 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	21.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	48.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	238 Â°C	460 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	247 Â°C @Thickness 3.20 mm	477 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C	219 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/af
	129 Â°C @Thickness 3.20 mm	264 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China