

SABIC Innovative Plastics LNP Thermocomp AF0029 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* Thermocomp* AF0029 is an ABS base resin containing Glass Fiber. Characteristics of this grade are Flame Retardancy. 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-AF0029-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D 792
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.30 %	0.30 %	23Â°C / 50% RH; ISO 62
	0.19 %	0.19 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	5 mm/min; ISO 527
	71.0 MPa	10300 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	70.0 MPa	10200 psi	5 mm/min; ISO 527
	71.0 MPa	10300 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	5.04 GPa	731 ksi	1 mm/min; ISO 527
	5.49 GPa	796 ksi	50 mm/min; ASTM D 638
Flexural Strength	100 MPa	14500 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	110 MPa	16000 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	4.52 GPa	656 ksi	2 mm/min; ISO 178
	4.81 GPa	698 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.430 J/cm @Temperature 23.0 Â°C	0.806 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	2.77 J/cm @Temperature 23.0 Â°C	5.19 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	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	4.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	2.22 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	10.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	5.56 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	105 Â°C	221 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	105 Â°C @Thickness 3.20 mm	221 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C	207 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	97.0 Â°C	207 Â°F	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	unannealed; ASTM D 648 Comments
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