

SABIC Innovative Plastics LNP THERMOCOMP OF008AH PPS - Branched

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* THERMOCOMP* OF008AH is a compound based on PPS - Branched resin containing 40% Glass Fiber. Added features of this grade are: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-OF008AH-PPS-Branched.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	5 mm/min; ISO 527
	178 MPa	25800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.2 %	1.2 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	190 MPa	27600 psi	ISO 178
	248 MPa	36000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	13.4 GPa	1940 ksi	2 mm/min; ISO 178
	14.26 GPa	2068 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.87 J/cm	11.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 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
Coefficient of Friction, Dynamic	0.66	0.66	ASTM D3702 Modified
Coefficient of Friction, Static	0.87	0.87	ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	14.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	272 $\text{Å}^\circ\text{C}$	522 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	261 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	502 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.450 mm	V-0 @Thickness 0.0177 in	UL 94

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