

SABIC Innovative Plastics LNP THERMOCOMP OF006 PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* THERMOCOMP* OF006 is a compound based on Linear PPS containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-OF006-PPS-Linear.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	126 MPa	18300 psi	5 mm/min; ISO 527
	132 MPa	19100 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.3 %	1.3 %	5 mm/min; ISO 527
	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.96 GPa	1735 ksi	1 mm/min; ISO 527
	12.1 GPa	1750 ksi	50 mm/min; ASTM D638
Flexural Strength	170 MPa	24700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	175 MPa	25400 psi	2 mm/min; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	1.3 mm/min, 50 mm span; ASTM D790
	10.52 GPa	1526 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.91 J/cm	7.33 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	45.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	25.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	275 $\text{Å}^\circ\text{C}$	527 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	276 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	529 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	258 $\text{Å}^\circ\text{C}$	496 $\text{Å}^\circ\text{F}$	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

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