

SABIC Innovative Plastics LNP THERMOCOMP UF006AS PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP THERMOCOMP* UF006AS is a compound based on Polyphthalamide resin containing 30% Glass Fiber. Added features of this material include: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UF006AS-PPA.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
	1.454 g/cc	0.05253 lb/in ³	ASTM D792
Moisture Absorption	0.220 %	0.220 %	50% RH, 24 hrs; ASTM D570
	0.410 %	0.410 %	23 ⁰ C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0024 cm/cm	0.0024 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0097 cm/cm	0.0097 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	167 MPa	24200 psi	ISO 527
	182 MPa	26400 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ISO 527
	1.9 %	1.9 %	ASTM D638
Tensile Modulus	11.6 GPa	1680 ksi	50 mm/min; ASTM D638
	14.79 GPa	2145 ksi	1 mm/min; ISO 527
Flexural Strength	254 MPa	36800 psi	ASTM D790
	255 MPa	37000 psi	ISO 178

Flexural Modulus Mechanical Properties	11.22 GPa Metric	1627 ksi English	ISO 178 Comments
	11.53 GPa	1672 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.11 J/cm	7.70 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	260 Â°C	500 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	282 Â°C	540 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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