

SABIC Innovative Plastics LNP THERMOCOMP UF006S PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP THERMOCOMP* UF006S 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-UF006S-PPA.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Time 86400 sec	0.0050 - 0.0070 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	196 MPa	28400 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Tensile Modulus	13.56 GPa	1967 ksi	50 mm/min; ASTM D638
Flexural Strength	275 MPa	39900 psi	ASTM D790
Flexural Modulus	10.21 GPa	1481 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.26 J/cm	13.6 ft-lb/in	ASTM D4812
Coefficient of Friction, Dynamic	0.48	0.48	ASTM D3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D3702 Modified
K (wear) Factor	101 x 10 ⁻⁸ mm ³ /N-M	50.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.8 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	46.0 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831

Thermal Properties	Metric $10^{-3} \text{ } \mu\text{m/m-}^{\circ}\text{C}$	English $67.8 \text{ } \mu\text{in/in-}^{\circ}\text{F}$	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 $^{\circ}\text{C}$	@Temperature -40.0 - 104 $^{\circ}\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	258 $^{\circ}\text{C}$ @Thickness 3.20 mm	496 $^{\circ}\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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