

SABIC Innovative Plastics LNP THERMOCOMP UF00ASW PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Thermocomp* UF00ASW is a compound based on Polyphthalamide (PPA) containing glass fiber. Characteristics of this grade of Heat Stabilized and Hot Water Moldable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UF00ASW-PPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 g/cc	ASTM D792
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D792
Moisture Absorption	0.270 %	0.270 %	50% RH, 24 hrs; ASTM D570
	0.330 %	0.330 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	214 MPa	31000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	214 MPa	31000 psi	5 mm/min; ISO 527
Elongation at Break	1.4 %	1.4 %	5 mm/min; ISO 527
Elongation at Yield	1.4 %	1.4 %	5 mm/min; ISO 527
Tensile Modulus	19.06 GPa	2764 ksi	1 mm/min; ISO 527
Flexural Strength	324 MPa	47000 psi	ISO 178
	337 MPa	48900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	335 MPa	48600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	17.24 GPa	2500 ksi	2 mm/min; ISO 178
	17.5 GPa	2540 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.910 J/cm	1.70 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	7.89 J/cm Metric	14.8 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	13.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	43.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	23.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	296 Â°C	565 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	297 Â°C @Thickness 3.20 mm	567 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	281 Â°C	538 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	285 Â°C @Thickness 3.20 mm	545 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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