

SABIC Innovative Plastics LNP Thermocomp UC008S PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Thermocomp* UC008S is a compound based on Polyphthalamide resin containing Carbon Fiber. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-UC008S-PPA.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.40 % @Time 86400 sec	0.40 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ISO 294
	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ISO 294
	0.0070 - 0.0090 cm/cm @Time 86400 sec	0.0070 - 0.0090 in/in @Time 24.0 hour	ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	232 MPa	33600 psi	ISO 527
	261 MPa	37900 psi	ASTM D 638
Elongation at Break	1.0 %	1.0 %	ASTM D 638
	1.3 %	1.3 %	ISO 527
Tensile Modulus	33.78 GPa	4899 ksi	50 mm/min; ASTM D 638
	35.53 GPa	5153 ksi	1 mm/min; ISO 527
Flexural Strength	425 MPa	61600 psi	ISO 178
	441 MPa	64000 psi	ASTM D 790
Flexural Modulus	26.59 GPa	3857 ksi	ISO 178
	26.82 GPa	3890 ksi	ASTM D 790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	U.550 J/cm @Temperature 23.0 °C	1.55 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	3.20 J/cm @Temperature 23.0 °C	5.99 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 °C	5.16 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 250 °C	>= 482 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	>= 248 °C @Thickness 3.20 mm	>= 478 °F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D 257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D 257

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