

SABIC Innovative Plastics LNP THERMOCOMP UX08325 PPA (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Thermocomp* UX08325 is PPA base glass fiber filled compounds, good for LDS (Laser direct structuring) application. Additional feature is high heat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UX08325-PPA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Moisture Absorption	0.530 %	0.530 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0041 cm/cm	0.0041 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0052 cm/cm	0.0052 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	5 mm/min; ISO 527
	135 MPa	19600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	Flexural Strain, break, 2 mm/min; ISO 178
Tensile Modulus	10.88 GPa	1578 ksi	50 mm/min; ASTM D638
	11.08 GPa	1607 ksi	1 mm/min; ISO 527
Flexural Strength	194 MPa	28100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	194 MPa	28100 psi	2 mm/min; ISO 178
	197 MPa	28600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.61 GPa	1390 ksi	2 mm/min; ISO 178
	9.77 GPa	1420 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.51 J/cm	6.58 ft-lb/in	ASTM D4812

Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4 ISO 180/1A
Mechanical Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	12.2 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
CTE, linear, Transverse to Flow	54.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	30.0 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	261 Å°C	502 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	263 Å°C @Thickness 3.20 mm	505 Å°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.2 @Frequency 1.00e+9 Hz	4.2 @Frequency 1.00e+9 Hz	ASTM D150
Dissipation Factor	0.010 @Frequency 1.00e+9 Hz	0.010 @Frequency 1.00e+9 Hz	ASTM D150

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