

SABIC Innovative Plastics LNP THERMOCOMP UCF22S PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Thermocomp* UCF22S is a compound based on Polyphthalamide resin containing 20% Glass Fiber, 10% Carbon Fiber. Added features of this material include: Heat Stabilized, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UCF22S-PPA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Moisture Absorption	0.340 %	0.340 %	50% RH, 24 hrs; ASTM D570
	0.560 %	0.560 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 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	178 MPa	25800 psi	5 mm/min; ISO 527
	188 MPa	27300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	1.7 %	1.7 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.76 GPa	1851 ksi	1 mm/min; ISO 527
	12.98 GPa	1883 ksi	5 mm/min; ASTM D638
Flexural Strength	249 MPa	36100 psi	ISO 178
	264 MPa	38300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.43 GPa	1513 ksi	2 mm/min; ISO 178
	10.8 GPa	1570 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	4.21 J/cm Metric	7.89 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	47.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	74.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	275 Â°C	527 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	280 Â°C @Thickness 3.20 mm	536 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	255 Â°C	491 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	262 Â°C @Thickness 3.20 mm	504 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China