

SABIC Innovative Plastics LNP THERMOCOMP UFW49RS PPA (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Thermocomp* UFW49RS is a compound based on Polyphthalamide resin containing Glass Fiber, Mineral. 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-UFW49RS-PPA-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.87 g/cc	0.0676 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	on Tensile Bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	186 MPa	27000 psi	5 mm/min; ISO 527
Elongation at Yield	1.1 %	1.1 %	5 mm/min; ISO 527
Tensile Modulus	20.8 GPa	3020 ksi	1 mm/min; ISO 527
Flexural Strength	278 MPa	40300 psi	2 mm/min; ISO 178
Flexural Modulus	18.1 GPa	2630 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 Åµm/m-Å°C	8.89 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	36.0 Åµm/m-Å°C	20.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	251 Å°C	484 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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