

SABIC Innovative Plastics LNP Verton UX06451 PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Verton* UX06451 is a compound based on Polyphthalamide resin containing Long Glass Fiber. 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-Verton-UX06451-PPA.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ASTM D 792
	1.63 g/cc	0.0589 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00060 cm/cm	0.00060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	274 MPa	39700 psi	ASTM D 638
	275 MPa	39900 psi	ISO 527
Elongation at Break	1.7 %	1.7 %	ISO 527
	1.9 %	1.9 %	ASTM D 638
Tensile Modulus	19.0 GPa	2760 ksi	1 mm/min; ISO 527
	19.3 GPa	2800 ksi	50 mm/min; ASTM D 638
Flexural Strength	375 MPa	54400 psi	ISO 178
Flexural Modulus	17.4 GPa	2520 ksi	ISO 178
Izod Impact, Notched	4.11 J/cm	7.70 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	14.95 J/cm	28.01 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	40.0 kJ/m ²	19.0 ft-lb/in ²	

Izod Impact Notched (ISO) Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	80*10*4; ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	75.0 kJ/m ² @Temperature 23.0 °C	35.7 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	14.0 J	10.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 μm/m-°C @Temperature -40.0 - 40.0 °C	12.2 μin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow	32.0 μm/m-°C @Temperature -40.0 - 40.0 °C	17.8 μin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2

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