

SABIC Innovative Plastics LNP Verton UX06451 BK8-312 PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Verton* UX06451 BK8-312 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-BK8-312-PPA.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ISO 1183
	1.63 g/cc	0.0589 lb/in ³	ASTM D 792
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	230 MPa	33400 psi	ISO 527
	244 MPa	35400 psi	ASTM D 638
Elongation at Break	1.3 %	1.3 %	ISO 527
	1.6 %	1.6 %	ASTM D 638
Tensile Modulus	18.6 GPa	2700 ksi	1 mm/min; ISO 527
	19.78 GPa	2869 ksi	50 mm/min; ASTM D 638
Flexural Strength	335 MPa	48600 psi	ISO 178
Flexural Modulus	17.5 GPa	2540 ksi	ISO 178
Izod Impact, Notched	3.09 J/cm	5.79 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	9.23 J/cm	17.3 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	30.0 kJ/m ²	14.3 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)	60.0 kJ/m ² @Temperature 23.0 °C	28.6 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	13.0 J	9.59 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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