

SABIC Innovative Plastics LNP VERTON UX06451 BK8-312 PPA (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Verton* UX06451 BK8-312 is a compound based on Polyphthalamide resin containing Long Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-UX06451-BK8-312-PPA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ASTM D792
	1.63 g/cc	0.0589 lb/in ³	ISO 1183
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
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 D638
Elongation at Break	1.3 %	1.3 %	ISO 527
	1.6 %	1.6 %	ASTM D638
Tensile Modulus	18.6 GPa	2700 ksi	1 mm/min; ISO 527
	19.78 GPa	2869 ksi	50 mm/min; ASTM D638
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 D256
Izod Impact, Unnotched	9.23 J/cm	17.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	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 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	12.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	32.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	17.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	

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