

SABIC Innovative Plastics LNP VERTON UX06451 PPA (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Verton* UX06451 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-PPA-Asia-Pacific.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 D792
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	274 MPa	39700 psi	ASTM D638
	275 MPa	39900 psi	ISO 527
Elongation at Break	1.7 %	1.7 %	ISO 527
	1.9 %	1.9 %	ASTM D638
Tensile Modulus	19.0 GPa	2760 ksi	1 mm/min; ISO 527
	19.3 GPa	2800 ksi	50 mm/min; ASTM D638
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 D256
Izod Impact, Unnotched	14.95 J/cm	28.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	75.0 kJ/m ²	35.7 ft-lb/in ²	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 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	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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