

SABIC Innovative Plastics LNP VERTON UX03320 PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* VERTON* UX03320 is a compound based on Polyphthalamide resin containing proprietary fillers. Added feature of this grade is: Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-UX03320-PPA.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	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00060 cm/cm	0.00060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.00050 - 0.0010 cm/cm	0.00050 - 0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.00080 - 0.0020 cm/cm	0.00080 - 0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0015 cm/cm	0.0015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Spiral Flow	30.0 cm	11.8 in	SABIC Method
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	70.0 cm	27.6 in	SABIC Method
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	ISO 527
	220 MPa	31900 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
	1.9 %	1.9 %	ISO 527

Mechanical Properties	Metric ^{19.0 GPa}	English ^{2740 ksi}	Comments ^{ASTM D638}
	20.3 GPa	2940 ksi	1 mm/min; ISO 527
Flexural Strength	300 MPa	43500 psi	ASTM D790
	360 MPa	52200 psi	2 mm/min; ISO 178
Flexural Modulus	17.7 GPa	2570 ksi	2 mm/min; ISO 178
	18.0 GPa	2610 ksi	ASTM D790
Izod Impact, Notched	3.00 J/cm	5.62 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.00 J/cm	15.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	38.0 kJ/m ²	18.1 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J @Temperature 23.0 Â°C	11.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	19.0 J	14.0 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	6.67 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	12.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	6.67 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	22.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	12.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	22.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	12.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	275 Â°C	527 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	260 Â°C @Thickness 3.20 mm	500 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	HB	HB	UL 94

Thermal Properties	@Thickness 0.800 mm Metric	@Thickness 0.0315 in English	Comments
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