

SABIC Innovative Plastics LNP VERTON UV00ASU PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* VERTON* UV00ASU is a compound based on Polyphthalamide resin containing 50% Long Glass Fiber. Added features of this material include: UV Stabilized, Heat Stabilized, Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-UV00ASU-PPA.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	ISO 1183
	1.67 g/cc	0.0603 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0048 cm/cm	0.0048 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	222 MPa	32200 psi	ISO 527
	257 MPa	37300 psi	ASTM D638
Tensile Strength, Yield	222 MPa	32200 psi	ISO 527
	257 MPa	37300 psi	ASTM D638
Elongation at Break	1.4 %	1.4 %	ISO 527
	1.8 %	1.8 %	ASTM D638
Elongation at Yield	1.4 %	1.4 %	ISO 527
	1.8 %	1.8 %	ASTM D638
Tensile Modulus	19.22 GPa	2788 ksi	1 mm/min; ISO 527

Mechanical Properties	19.3 GPa Metric	2800 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	386 MPa	56000 psi	ASTM D790
	393 MPa	57000 psi	ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	ISO 178
	17.23 GPa	2499 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	12.28 J/cm	23.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	41.0 kJ/m ²	19.5 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	78.0 kJ/m ²	37.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 Åµm/m-Å°C	17.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	31.0 Åµm/m-Å°C	17.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	14.4 Åµm/m-Å°C	8.00 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	15.0 Åµm/m-Å°C	8.33 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	296 Å°C	565 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	291 Å°C	556 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	272 Å°C	522 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	266 Å°C	511 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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