

SABIC Innovative Plastics LNP VERTON UF-700-12 HS EXP PPA (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP* Verton* UF-700-12 HS EXP is a compound based on Polyphthalamide resin containing Long Glass Fiber. Added features of this material include: Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-UF-700-12-HS-EXP-PPA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in ³	ASTM D792
	1.72 g/cc	0.0621 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0045 cm/cm	0.0045 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	216 MPa	31300 psi	ISO 527
	238 MPa	34500 psi	ASTM D638
Tensile Strength, Yield	238 MPa	34500 psi	ASTM D638
	238 MPa	34500 psi	ISO 527
Elongation at Break	1.2 %	1.2 %	ISO 527
	1.4 %	1.4 %	ASTM D638
Elongation at Yield	1.4 %	1.4 %	ASTM D638
	1.4 %	1.4 %	ISO 527
Tensile Modulus	22.24 GPa	3226 ksi	1 mm/min; ISO 527

Mechanical Properties	22.75 GPa Metric	3300 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	341 MPa	49500 psi	ISO 178
	344 MPa	49900 psi	ASTM D790
Flexural Modulus	19.0 GPa	2760 ksi	ISO 178
	19.3 GPa	2800 ksi	ASTM D790
Izod Impact, Notched	2.24 J/cm	4.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.86 J/cm	16.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.8 Åµm/m-Å°C	16.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	29.0 Åµm/m-Å°C	16.1 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	23.0 Åµm/m-Å°C	12.8 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)	283 Å°C	541 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	281 Å°C	538 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	257 Å°C	495 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 Å°C	491 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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