

SABIC Innovative Plastics LNP Verton WV00A PBT (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP VERTON* WV00A is a compound based on Polybutylene Terephthalate resin containing Long Glass. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Verton-WV00A-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D 792
	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.090 %	0.090 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00080 - 0.0029 cm/cm	0.00080 - 0.0029 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0043 - 0.0072 cm/cm	0.0043 - 0.0072 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	154 MPa	22300 psi	ASTM D 638
	163 MPa	23600 psi	ISO 527
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.1 %	1.1 %	ASTM D 638
Tensile Modulus	19.77 GPa	2867 ksi	1 mm/min; ISO 527
	20.24 GPa	2936 ksi	50 mm/min; ASTM D 638
Flexural Strength	233 MPa	33800 psi	ASTM D 790
	235 MPa	34100 psi	ISO 178
Flexural Modulus	14.4 GPa	2090 ksi	ASTM D 790

Mechanical Properties	Metric ^{SI Pa}	English ^l	Comments
Izod Impact, Unnotched	8.31 J/cm @Temperature 23.0 °C	15.6 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	40.0 kJ/m ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
	43.0 kJ/m ² @Temperature -40.0 °C	20.5 ft-lb/in ² @Temperature -40.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	59.0 kJ/m ² @Temperature 23.0 °C	28.1 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	11.0 J	8.11 ft-lb	Multiaxial Impact; ISO 6603
	12.0 J @Temperature 23.0 °C	8.85 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.5 µm/m-°C	10.3 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	18.5 µm/m-°C	10.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	41.4 µm/m-°C	23.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	41.4 µm/m-°C	23.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	223 °C @Thickness 3.20 mm	433 °F @Thickness 0.126 in	

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