

SABIC Innovative Plastics LNP Verton WV007XXP PBT (Europe-Africa-Middle East)

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

Material Notes:

LNP VERTON* WV007XXP 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-WV007XXP-PBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ISO 1183
	1.59 g/cc	0.0574 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.10 %	0.10 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0021 - 0.0055 cm/cm	0.0021 - 0.0055 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0090 cm/cm	0.0050 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0055 - 0.0093 cm/cm	0.0055 - 0.0093 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	141 MPa	20500 psi	ISO 527
	146 MPa	21200 psi	ASTM D 638
Elongation at Break	1.3 %	1.3 %	ISO 527
	1.4 %	1.4 %	ASTM D 638
Tensile Modulus	13.44 GPa	1949 ksi	1 mm/min; ISO 527
	14.0 GPa	2030 ksi	50 mm/min; ASTM D 638
Flexural Strength	209 MPa	30300 psi	ISO 178
	213 MPa	30900 psi	ASTM D 790
Flexural Modulus	10.39 GPa	1507 ksi	ASTM D 790

Mechanical Properties	Metric	English	Comments
	11.23 GPa	1629 ksi	ISO 178
Izod Impact, Notched	2.78 J/cm @Temperature 23.0 °C	5.21 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Unnotched	7.05 J/cm @Temperature 23.0 °C	13.2 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
Izod Impact, Notched (ISO)	27.0 kJ/m ² @Temperature 23.0 °C	12.8 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/m ² @Temperature 23.0 °C	17.6 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	9.00 J	6.64 ft-lb	Multiaxial Impact; ISO 6603
	11.0 J @Temperature 23.0 °C	8.11 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.1 µm/m-°C	20.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	36.2 µm/m-°C	20.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	64.0 µm/m-°C	35.6 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	64.0 µm/m-°C	35.6 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	231 °C	448 °F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	222 °C @Thickness 3.20 mm	432 °F @Thickness 0.126 in	

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