

SABIC Innovative Plastics LNP Verton PV007SV_WH8D537 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

Preliminary data for 35% long fiber single pellet color filled PA6 This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Verton-PV007SVWH8D537-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D 792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	175 MPa	25400 psi	Type I, 5 mm/min; ASTM D 638
	178 MPa	25800 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D 638
	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	8.16 GPa	1180 ksi	1 mm/min; ISO 527
	9.16 GPa	1330 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	222 MPa	32200 psi	1.3 mm/min, 50 mm span; ASTM D 790
	261 MPa	37900 psi	2 mm/min; ISO 178
Flexural Modulus	6.52 GPa	946 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	7.99 GPa	1160 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.88 J/cm	3.52 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.33 J/cm	4.37 ft-lb/in	ASTM D 256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched	12.7 J/cm	23.8 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	27.0 kJ/m ²	12.8 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	59.1 ft·lb/in ²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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