

SABIC Innovative Plastics LNP Verton RV008ESV_GY7E072 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

Preliminary data for 40% long glass fiber filled, single color pellet gray, PA66 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-RV008ESVGY7E072-PA-66.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
	1.485 g/cc	0.05365 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.65 %	0.65 %	23 ^o C / 50% RH; ISO 62
	0.93 %	0.93 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0023 - 0.0043 cm/cm	0.0023 - 0.0043 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	182 MPa	26400 psi	Type I, 5 mm/min; ASTM D 638
	195 MPa	28300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	184 MPa	26700 psi	Type I, 5 mm/min; ASTM D 638
	195 MPa	28300 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D 638
	2.3 %	2.3 %	5 mm/min; ISO 527
Elongation at Yield	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D 638
	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	10.44 GPa	1514 ksi	1 mm/min; ISO 527
	11.56 GPa	1677 ksi	50 mm/min; ASTM D 638
Flexural Strength	273 MPa	39600 psi	1.3 mm/min, 50 mm span; ASTM D 790
	276 MPa	40000 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	10.19 GPa	1478 ksi	2 mm/min, ISO 178
	11.3 GPa	1640 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.23 J/cm @Temperature -40.0 Â°C	4.18 ft-lb/in @Temperature -40.0 Â°F	ASTM D 256
	2.46 J/cm @Temperature 23.0 Â°C	4.61 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	10.8 J/cm @Temperature 23.0 Â°C	20.2 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	15.0 kJ/mÂ² @Temperature 23.0 Â°C	7.14 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
	27.0 kJ/mÂ² @Temperature -40.0 Â°C	12.8 ft-lb/inÂ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	69.0 kJ/mÂ² @Temperature -40.0 Â°C	32.8 ft-lb/inÂ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1U
	71.0 kJ/mÂ² @Temperature 23.0 Â°C	33.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	12.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	58.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	32.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM E 831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	268 Â°C	508 Â°F	Flatw 80*10*4 sp=64mm, ISO 75/Bf
	259 Â°C @Thickness 3.20 mm	498 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	256 Â°C	493 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 Â°C @Thickness 3.20 mm	491 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China