

SABIC Innovative Plastics LNP Verton NV0081EV_GY7E149 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

Preliminary data for 40% long fiber single pellet non-halogen FR color filled PC/ABSThis 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-NV0081EVGY7E149-PCABS.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
	1.536 g/cc	0.05549 lb/in ³	ASTM D 792
Water Absorption	0.070 %	0.070 %	ISO 62-1
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
	0.057 %	0.057 %	ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00060 - 0.0026 cm/cm	0.00060 - 0.0026 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0031 - 0.0051 cm/cm	0.0031 - 0.0051 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	92.0 MPa	13300 psi	Type I, 5 mm/min; ASTM D 638
	100 MPa	14500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	92.0 MPa	13300 psi	Type I, 5 mm/min; ASTM D 638
	100 MPa	14500 psi	5 mm/min; ISO 527
Elongation at Break	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D 638
	0.90 %	0.90 %	5 mm/min; ISO 527
	1.2 %	1.2 %	Flexural Strain, 2 mm/min; ISO 178
Elongation at Yield	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D 638
	0.90 %	0.90 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	10.75 GPa Metric	1559 ksi English	1 mm/min* ISO 527 Comments
	12.26 GPa	1778 ksi	50 mm/min; ASTM D 638
Flexural Strength	152 MPa	22000 psi	2 mm/min; ISO 178
	156 MPa	22600 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Yield Strength	152 MPa	22000 psi	2 mm/min; ISO 178
	156 MPa	22600 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	12.35 GPa	1791 ksi	2 mm/min; ISO 178
	12.9 GPa	1870 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.45 J/cm @Temperature 23.0 Â°C	4.59 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	3.03 J/cm @Temperature -40.0 Â°C	5.68 ft-lb/in @Temperature -40.0 Â°F	ASTM D 256
Izod Impact, Unnotched	4.35 J/cm @Temperature 23.0 Â°C	8.15 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
	4.77 J/cm @Temperature -40.0 Â°C	8.94 ft-lb/in @Temperature -40.0 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	26.0 kJ/mÂ² @Temperature 23.0 Â°C	12.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
	29.0 kJ/mÂ² @Temperature -40.0 Â°C	13.8 ft-lb/inÂ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	27.0 kJ/mÂ² @Temperature -40.0 Â°C	12.8 ft-lb/inÂ² @Temperature -40.0 Â°F	80*10*4; ISO 180/1U
	32.0 kJ/mÂ² @Temperature 23.0 Â°C	15.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	11.0 J @Temperature 23.0	8.11 ft-lb	Instrumented Impact Total Energy; ASTM D 3763

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.8 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 40.0 $^\circ\text{C}$	12.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	37.9 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 40.0 $^\circ\text{C}$	21.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 104 $^\circ\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	89.0 $^\circ\text{C}$	192 $^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	88.0 $^\circ\text{C}$ @Thickness 3.20 mm	190 $^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0 @Thickness 1.50 - 1.60 mm	V-0 @Thickness 0.0591 - 0.0630 in	UL 94

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