

## SABIC Innovative Plastics LNP Verton NV0041EV\_GY7E147 PC+ABS

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

### Material Notes:

Preliminary data for 20% 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-NV0041EVGY7E147-PCABS.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Verton-NV0041EVGY7E147-PCABS.php)

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ISO 1183
	1.373 g/cc	0.04960 lb/in <sup>3</sup>	ASTM D 792
Water Absorption	0.11 %	0.11 %	ISO 62-1
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
	0.083 %	0.083 %	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	0.0034 - 0.0054 cm/cm	0.0034 - 0.0054 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	99.0 MPa	14400 psi	Type I, 5 mm/min; ASTM D 638
	105 MPa	15200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	99.0 MPa	14400 psi	Type I, 5 mm/min; ASTM D 638
	105 MPa	15200 psi	5 mm/min; ISO 527
Elongation at Break	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D 638
	1.7 %	1.7 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Flexural Strain, 2 mm/min; ISO 178
Elongation at Yield	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D 638
	1.7 %	1.7 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	7.03 GPa Metric	1020 ksi English	1 mm/min; ISO 527 Comments
	7.64 GPa	1110 ksi	50 mm/min; ASTM D 638
Flexural Strength	139 MPa	20200 psi	1.3 mm/min, 50 mm span; ASTM D 790
	141 MPa	20500 psi	2 mm/min; ISO 178
Flexural Yield Strength	139 MPa	20200 psi	1.3 mm/min, 50 mm span; ASTM D 790
	141 MPa	20500 psi	2 mm/min; ISO 178
Flexural Modulus	7.25 GPa	1050 ksi	2 mm/min; ISO 178
	8.19 GPa	1190 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.54 J/cm @Temperature 23.0 °C	2.89 ft-lb/in @Temperature 73.4 °F	ASTM D 256
	1.94 J/cm @Temperature -40.0 °C	3.63 ft-lb/in @Temperature -40.0 °F	ASTM D 256
Izod Impact, Unnotched	3.04 J/cm @Temperature 23.0 °C	5.70 ft-lb/in @Temperature 73.4 °F	ASTM D 4812
	3.30 J/cm @Temperature -40.0 °C	6.18 ft-lb/in @Temperature -40.0 °F	ASTM D 4812
Izod Impact, Notched (ISO)	16.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	7.61 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1A
	17.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	8.09 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	21.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	9.99 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80*10*4; ISO 180/1U
	21.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	9.99 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80*10*4; ISO 180/1U
Impact Test	8.00 J @Temperature 23.0	5.90 ft-lb	Instrumented Impact Total Energy; ASTM D 3763

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	21.4 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	11.9 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
CTE, linear, Transverse to Flow	51.6 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	28.7 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C	194 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	89.0 Å°C @Thickness 3.20 mm	192 Å°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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