

SABIC Innovative Plastics LNP VERTON PX06418 PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* VERTON* PX06418 is a compound based on Nylon 6 containing proprietary fillers. Added features of this grade are: Heat Stabilized, Structural.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-PX06418-PA-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Moisture Absorption	1.10 %	1.10 %	50% RH, 24 hrs; ASTM D570
	1.70 %	1.70 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	182 MPa	26400 psi	5 mm/min; ISO 527
	203 MPa	29400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	193 MPa	28000 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	10.9 GPa	1580 ksi	1 mm/min; ISO 527
	11.96 GPa	1735 ksi	50 mm/min; ASTM D638
Flexural Strength	290 MPa	42100 psi	ISO 178
	307 MPa	44500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	309 MPa	44800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.53 GPa	1380 ksi	2 mm/min; ISO 178

Mechanical Properties	10.0 GPa Metric	1450 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Izod Impact, Notched	2.84 J/cm	5.32 ft-lb/in	ASTM D256
Izod Impact, Unnotched	10.4 J/cm	19.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	27.0 kJ/m ²	12.8 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	64.0 kJ/m ²	30.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J @Temperature 23.0 °C	11.1 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	47.7 µm/m-°C @Temperature -30.0 - 30.0 °C	26.5 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	114 µm/m-°C @Temperature -30.0 - 30.0 °C	63.3 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	213 °C	415 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	213 °C @Thickness 3.20 mm	415 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	207 °C	405 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	208 °C @Thickness 3.20 mm	406 °F @Thickness 0.126 in	unannealed; ASTM D648

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