

SABIC Innovative Plastics LNP VERTON E9007E PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* VERTON* E9007E is a compound based on Polyetherimide (PEI) containing 35% Long Carbon Fiber. Added features of this grade include: Structural, High Temperature

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-VERTON-E9007E-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	253 MPa	36700 psi	5 mm/min; ISO 527
	267 MPa	38700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.90 %	0.90 %	5 mm/min; ISO 527
	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	32.0 GPa	4640 ksi	5 mm/min; ASTM D638
	33.0 GPa	4790 ksi	1 mm/min; ISO 527
Flexural Strength	411 MPa	59600 psi	ISO 178
	429 MPa	62200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	28.5 GPa	4130 ksi	2 mm/min; ISO 178
	28.9 GPa	4190 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.69 J/cm	3.17 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.20 J/cm	9.74 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m ²	16.2 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.00 Åµm/m-Å°C	4.44 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	

Thermal Properties CTE, linear, transverse to Flow	22.0 Âµm/m-Â°C Metric	12.2 Âµin/in-Â°F English	Comments ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	215 Â°C	419 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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