

Ovation Polymers Nemcon™ E PK DP104 Polyetheretherketone, Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Nemcon™ E PK DP104 is a carbon fiber reinforced polyetheretherketone, characterized by high strength, stiffness, consistent moldability, and exceptional thermal resistance. All properties after 48hrs conditioning at 23°C/50% RH

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ovation-Polymers-Nemcon-E-PK-DP104-Polyetheretherketone-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa	29000 psi	50 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	50 mm/min; ASTM D638
Tensile Modulus	19.54 GPa	2834 ksi	50 mm/min; ASTM D638
Flexural Strength	320 MPa	46400 psi	1.3 mm/min; ASTM D790
Flexural Modulus	18.6 GPa	2700 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.881 J/cm	1.65 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	332 °C @Thickness 3.20 mm	630 °F @Thickness 0.126 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1000 ohm	1000 ohm	ASTM D257

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