

Ovation Polymers Nemcon™ E-PC CB Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Nemcon E-series products are designed for use in ESDA electronic assembly environments. Nemcon E-PC CB is a carbon black-filled polycarbonate characterized by consistent moldability, recyclability, low outgassing, and good conductivity.

Applications Shipping/handling trays for components, ICs and circuit assemblies Internal components/assemblies Information provided by Ovation Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ovation-Polymers-Nemcon-E-PC-CB-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	63.0 MPa	9140 psi	50 mm/min; ASTM D638
Elongation at Break	14 %	14 %	50 mm/min; ASTM D638
Tensile Modulus	2.78 GPa	403 ksi	50 mm/min; ASTM D638
Flexural Strength	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.561 J/cm @Temperature 23.0 °C	1.05 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	130 °C @Thickness 3.20 mm	266 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	30000 ohm	30000 ohm	ASTM D257

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