

Ovation Polymers Nemcon™ H PC DP105/X3 BK Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Polycarbonate-Black colored, thermally conducting, electrically insulating grade with high HDT and improved processability. Information provided by Ovation Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ovation-Polymers-Nemcon-H-PC-DP105X3-BK-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	50 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	50 mm/min; ASTM D638
Tensile Modulus	6.90 GPa	1000 ksi	50 mm/min; ASTM D638
Flexural Strength	85.0 MPa	12300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.20 GPa	1190 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.320 J/cm @Temperature 23.0 °C	0.599 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	6.10 W/m-K	42.3 BTU-in/hr-ft ² -°F	ASTM E-1461
Deflection Temperature at 1.8 MPa (264 psi)	136 °C @Thickness 3.20 mm	277 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	8.00e+12 ohm	8.00e+12 ohm	ASTM D257

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