

Westlake Plastics Propylux® CN-P Polypropylene (conductive)

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with Carbon Black Filler

Material Notes:

Carbon-powder-filled lightweight material with good chemical resistance, extremely low water absorption level, and high impact resistance (no break, notched or unnotched). Rated UL94 V-0. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Propylux-CN-P-Polypropylene-conductive.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.7 MPa	3000 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Flexural Strength	27.6 MPa	4000 psi	ASTM D790
Flexural Modulus	0.965 GPa	140 ksi	ASTM D790
Izod Impact, Notched	1.87 J/cm	3.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.34 J/cm	17.5 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	54.4 °C	130 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	Dry; ASTM D257
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	Dry; ASTM D257
Static Decay	<= 0.10 sec	<= 0.10 sec	15% RH; MIL-B-81705-B

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