

Westlake Plastics Absylux® CN-P Acrylonitrile-Butadiene-Styrene (conductive)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Carbon Black Filled

Material Notes:

Carbon-powder-filled conductive material with high strength and stiffness, and relatively high impact strength. This material is easily machined and fabricated into close tolerance finished parts. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Absylux-CN-P-Acrylonitrile-Butadiene-Styrene-conductive.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Elongation at Break	11 %	11 %	ASTM D638
Flexural Strength	49.6 MPa	7200 psi	ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.21 J/cm	13.5 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °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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