

Westlake Plastics Kynar® PVDF CN-F Polyvinylidene Fluoride (conductive)

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

Material Notes:

Non-sloughing carbon-fiber-filled material with resistance to most chemicals and solvents mechanically strong and tough, thermally stable to 335F, flame and abrasion resistant, and easily fabricated into finished parts. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Kynar-PVDF-CN-F-Polyvinylidene-Fluoride-conductive.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	ASTM D2240
Tensile Strength, Yield	141 MPa	20500 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
Flexural Strength	183 MPa	26500 psi	ASTM D790
Flexural Modulus	8.55 GPa	1240 ksi	ASTM D790
Izod Impact, Notched	0.908 J/cm	1.70 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	168 °C	335 °F	ASTM D648

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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