GEHR Plastics PVDF-ELS Polyvinylidene Fluoride, Electrically Conductive

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

Polyvinylidene fluoride shows a higher tensile strength, pressure resistance and dimensional stability than the related PTFE, but friction and insulation properties are lower. PVDF has a high mechanical strength and toughness at lower temperature and it's self-extinguishing. The temperature ranges from -30Â°C to 150Â°C.Propertieshigh tensile strengthhigh mechanical strengthhigh rigidityhigh chemical resistancevery low water absorptiongood friction and wear and tear valuesself-extinguishinghigh UV-resistancetoxic fumes when burnedcan not be solvent cementedrelatively high coefficient of thermal expansionApplications include gaskets, pumps, rotation disks, valves, flap traps, centrifugals of extraction, fittings, glide tracks, and cogwheels.

Order this product through the following link:
http://www.lookpolymers.com/polymer_GEHR-Plastics-PVDF-ELS-Polyvinylidene-Fluoride-Electrically-Conductive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.78 g/cc	1.78 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	DIN 53505
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527
Elongation at Break	>= 20 %	>= 20 %	ISO 527
Elongation at Yield	9.0 %	9.0 %	ISO 527
Modulus of Elasticity	1.60 GPa	232 ksi	ISO 527
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	ISO 179

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
Minimum Service Temperature, Air	-30.0 Â°C	-22.0 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 10000 ohm-cm	>= 10000 ohm-cm	VDE 0303
Surface Resistivity per Square	>= 10000 ohm	>= 10000 ohm	VDE 0303

Descriptive Properties	Value	Comments
Acid Resistance	limited	
Bondability	limited	

Descriptive Properties	Value	Comments
Color	Natural	
Physiological indifference according	no	
UV Stabilization	yes	

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