

Murfieldt Murflor® Polytetrafluoroethylene

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Extruded

Material Notes:

Murflor® materials are suited to use in applications that require an excellent resistance to chemicals and heating steam. Murflor®'s working range starts at -200°C and can extend to +260°C with no mechanical load. Murflor® also has the lowest dynamic friction coefficient of all thermoplastics. Special Properties: • Best dynamic friction properties of all thermoplastics • No stick/slip effect • Very good anti-adhesion properties • Electrically isolating • Very high resistance to chemicals • Very high resistance to hydrolysis • Very tough, even at low temperatures • Approved for use in the food industry (FDA information provided by Murfieldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Murfieldt-Murflor-Polytetrafluoroethylene.php

Physical Properties	Metric	English	Comments
Density	2.18 g/cc	0.0788 lb/in ³	ISO 1183-1

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	DIN 53505
Tensile Strength, Yield	20.0 MPa	2900 psi	ISO 527-1/-2
Elongation at Break	300 %	300 %	ISO 527-1/-2
Modulus of Elasticity	0.750 GPa	109 ksi	
Compressive Yield Strength	4.50 MPa @Strain 1.00 %	653 psi @Strain 1.00 %	dry; ISO 604
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179-1/1eA
Coefficient of Friction, Dynamic	0.080	0.080	
Sand Slurry	21	21	µm/km

Thermal Properties	Metric	English	Comments
CTE, linear	160 µm/m-°C @Temperature 23.0 - 100 °C	88.9 µin/in-°F @Temperature 73.4 - 212 °F	
Melting Point	321 °C	610 °F	ISO 11357-1
Maximum Service Temperature, Air	260 °C @Time 7.20e+7 sec	500 °F @Time 20000 hour	

Thermal Properties	300 °C Metric	572 °F English	Comments
	@Time <=86400 sec	@Time <=24.0 hour	
Minimum Service Temperature, Air	-200 °C	-328 °F	
Glass Transition Temp, Tg	127 °C	261 °F	ISO 11357-1
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	2.0	2.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	2.1	2.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Loss Index	20.0 kV/mm	508 kV/in	IEC 60243-1
Dielectric Loss Index	0.00010	0.00010	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.00030	0.00030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	Natural	

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