

Murtfeldt Original Material "S"® plus + LF ESD Polyethylene, Low Friction Conductive

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), UHMW PE Ultra High Molecular Weight

Material Notes:

This material is electrically conductive and has half the sliding friction coefficient of the Original Material "S"® enabling voltage to be dissipated at maximum speed with the same maximum friction resistance. Special Properties: Extremely high conductivity Voltage dissipation on the surface in less than 0.1s Reduction in drive power with no reduction in performance Minimal and constant sliding friction coefficient even in continuous operation Self-lubricating Approved for use in the food industry (EU and/or FDA) Information provided by Murtfeldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Murtfeldt-Original-Material-S-plus-LF-ESD-Polyethylene-Low-Friction-Conductive.php

Physical Properties	Metric	English	Comments
Density	<= 0.930 g/cc	<= 0.0336 lb/in ³	ISO 1183
Molecular Weight	9.00e+6 g/mol	9.00e+6 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	DIN 53505
Ball Indentation Hardness	30.0 MPa	4350 psi	
Tensile Strength	20.0 MPa	2900 psi	ISO 527
Elongation at Break	255 %	255 %	ISO 527
Modulus of Elasticity	0.700 GPa	102 ksi	
Charpy Impact, Notched	>= 15.0 J/cm ²	>= 71.4 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.060 - 0.10	0.060 - 0.10	
Sand Slurry	80	80	value in %

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C	111 µin/in-°F	
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² -°F	ISO 52612
Maximum Service Temperature, Air	90.0 °C	194 °F	Short Term
	80.0 °C	176 °F	

Thermal Properties	@Time 1.80e+7 sec Metric	@Time 5000 hour English	Comments
Minimum Service Temperature, Air	-200 °C	-328 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 1000 ohm-cm	<= 1000 ohm-cm	IEC 60093
Surface Resistance	<= 1.00e+9 ohm	<= 1.00e+9 ohm	IEC 60093

Compliance Properties	Metric	English	Comments
European Food 1935/2004	Yes	Yes	
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	Black	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China