Murtfeldt Material "S"® 1000 Black Antistatic Polyethylene, Conductive

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

Material Notes:

Material "S"® 1000 is exclusively produced from ultra-high molecular weight polyethylene powder that is mixed with finely milled Original Material "S"®. The fine milled material is compression-molded at high pressure and temperatures to form new semi-finished products. This results in a high-quality material with an exceptional price/performance ratio that is characterized by exceptional abrasion resistance and good slide properties.Special Properties:• Physiologically safe• Good wear resistance properties• Good slide properties• Good anti-adhesion properties• No moisture absorption• AntistaticInformation provided by Murtfeldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Murtfeldt-Material-S-1000-Black-Antistatic-Polyethylene-Conductive.php

Physical Properties	Metric	English	Comments
Density	<= 0.940 g/cc	<= 0.0340 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	<= 0.010 %	<= 0.010 %	ISO 62
Water Absorption at Saturation	<= 0.010 %	<= 0.010 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	DIN 53505
Ball Indentation Hardness	38.0 MPa	5510 psi	
Tensile Strength	24.6 MPa	3570 psi	ISO 527
Tensile Strength, Yield	>= 15.0 MPa	>= 2180 psi	ISO 527
Elongation at Break	230 %	230 %	ISO 527
Modulus of Elasticity	0.950 GPa	138 ksi	
Compressive Yield Strength	6.00 MPa @Strain 1.00 %	870 psi @Strain 1.00 %	ISO 604
	10.5 MPa @Strain 2.00 %	1520 psi @Strain 2.00 %	ISO 604
	18.0 MPa @Strain 5.00 %	2610 psi @Strain 5.00 %	ISO 604
Charpy Impact, Notched	>= 14.0 J/cm²	>= 66.6 ft-lb/in²	ISO 179
Coefficient of Friction, Dynamic	0.10 - 0.20	0.10 - 0.20	
Sand Slurry	120	120	value in %

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C @Temperature 23.0 - 60.0 °C	111 µin/in-°F @Temperature 73.4 - 140 °F	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft²-°F	ISO 52612
Melting Point	130 - 135 °C	266 - 275 °F	ISO 3146
Maximum Service Temperature, Air	90.0 °C	194 °F	Short Term
	80.0 °C @Time 1.80e+7 sec	176 °F @Time 5000 hour	
Minimum Service Temperature, Air	-150 °C	-238 °F	
Glass Transition Temp, Tg	-120 °C	-184 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 1.00e+6 ohm-cm	<= 1.00e+6 ohm-cm	IEC 60093
Surface Resistance	<= 1.00e+9 ohm	<= 1.00e+9 ohm	IEC 60093

Compliance Properties	Metric	English	Comments
FDA	No	No	

Descriptive Properties	Value	Comments
Color	Black	

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