

Murtfeldt Muralen® Black Antistatic Polyethylene, Conductive

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

Material Notes:

Muralen® is based on high molecular weight polyethylene (PE-HMW) and is ideally suited for use in applications that require the generally impressive material properties of polyethylene. Because of its great cut, impact, and shock resistance, this material is often used to make underlays for cutting and punching machines and for ram guards. Special Properties: • High cut resistance • Good shock and impact absorption • Good resistance to chemicals • Good anti-adhesion properties • Approved for use in the food industry (EU and FDA) • Good weldability • Antistatic Information provided by Murtfeldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Murtfeldt-Muralen-Black-Antistatic-Polyethylene-Conductive.php

Physical Properties	Metric	English	Comments
Density	<= 0.950 g/cc	<= 0.0343 lb/in ³	ISO 1183
Molecular Weight	500000 g/mol	500000 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	DIN 53505
Ball Indentation Hardness	45.0 MPa	6530 psi	
Tensile Strength	25.0 MPa	3630 psi	ISO 527
Elongation at Break	580 %	580 %	ISO 527
Modulus of Elasticity	1.10 GPa	160 ksi	
Charpy Impact, Notched	>= 2.50 J/cm ²	>= 11.9 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.18	0.18	
Sand Slurry	350	350	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	80.0 °C	176 °F	
	@Time 1.80e+7 sec	@Time 5000 hour	
Minimum Service Temperature, Air	-100 °C	-148 °F	

Flammability 18.94 Thermal Properties	HP Metric	HP English	Comments
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Electrical Properties	Metric	English	Comments
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Electrical Resistivity	$\geq 1.00e+6$ ohm-cm	$\geq 1.00e+6$ ohm-cm	IEC 60093
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Surface Resistance	$\geq 1.00e+9$ ohm	$\geq 1.00e+9$ ohm	IEC 60093
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Compliance Properties	Metric	English	Comments
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FDA	Yes	Yes	
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Descriptive Properties	Value	Comments
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Color	Black	
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