

Murtfeldt Material "S"® 8000 Polyethylene

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

Material Notes:

Material "S"® 8000 improves on the already impressive material properties of Original Material "S"®. The self lubricating character of this material makes it ideally suited for use in sliding guides, slide segments, and slide bearings. Special Properties:• Self-lubricating - lower sliding friction coefficient• Increased wear resistance• Excellent impact/shock resistance• Good resistance to chemicals• Good anti-adhesion properties• Electrically isolating• Better resistance to UV rays than Original Material "S"® green/natural
Information provided by Murtfeldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Murtfeldt-Material-S-8000-Polyethylene.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	65	65	DIN 53505
Ball Indentation Hardness	43.0 MPa	6240 psi	
Tensile Strength	21.1 MPa	3060 psi	ISO 527
Elongation at Break	265 %	265 %	ISO 527
Modulus of Elasticity	0.700 GPa	102 ksi	
Charpy Impact, Notched	>= 17.0 J/cm ²	>= 80.9 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.10 - 0.20	0.10 - 0.20	
Sand Slurry	90	90	value in %

Thermal Properties	Metric	English	Comments
CTE, linear	170 µm/m-°C	94.4 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	
	@Time 1.80e+7 sec	@Time 5000 hour	

Minimum Service Temperature, Air Thermal Properties	-200 °C Metric	-328 °F English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{16}$ ohm-cm	$\geq 1.00 \times 10^{16}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	IEC 60093
Dielectric Strength	≤ 45.0 kV/mm	≤ 1140 kV/in	IEC 60243

Descriptive Properties	Value	Comments
Color	Anthracite	

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