

Murtfeldt Original Material "S"® Natural Polyethylene

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

Material Notes:

Material "S"® is based on virgin, ultrahigh molecular weight low pressure polyethylene and significantly exceeds the requirements of DIN 16972. In particular, Material "S"® natural has excellent slide properties, high wear resistance, and a long lifetime It is used in all applications where a technical, high performance plastic is required. Special Properties:• Extremely high wear resistance – even in abrasive applications•Excellent slide properties• High impact strength•Extremely good resistance to chemicals•Excellent shock and impact absorption•Good anti-adhesion properties•No moisture absorption•Electrically isolating•Approved for use in the food industry (EU and 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-Natural-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	<= 0.930 g/cc	<= 0.0336 lb/in ³	ISO 1183
Molecular Weight	5.00e+6 g/mol	5.00e+6 g/mol	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	DIN 53505
Ball Indentation Hardness	38.0 MPa	5510 psi	
Tensile Strength	20.4 MPa	2960 psi	ISO 527
Elongation at Break	380 %	380 %	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	100	100	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	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	IEC 60093
Dielectric Strength	<= 45.0 kV/mm	<= 1140 kV/in	IEC 60243

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

Descriptive Properties	Value	Comments
Color	Natural	

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