

Murtfeldt Original Material "S"® plus + FP Polyethylene

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

Material Notes:

Original Material "S"® plus+ FP [FS] is a technical plastic that completely meets the requirements of the food sector for the detectability of plastic foreign bodies in foods. "FP" stands for "food protect" and embodies two vital properties: This product is both food-safe and metal-detectable. Special Properties: • Metal-detectable in all commonly used industrial detectors • Approved for use in the food industry (EU and FDA) • Very good wear and abrasion resistance • Extremely good machinability • Excellent chemical resistance • Increased continuous use temperature of 100°C 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-FP-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	<= 1.14 g/cc	<= 0.0412 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	64	64	DIN 53505
Ball Indentation Hardness	40.0 MPa	5800 psi	
Tensile Strength	26.0 MPa	3770 psi	ISO 527
Elongation at Break	250 %	250 %	ISO 527
Modulus of Elasticity	0.700 GPa	102 ksi	
Charpy Impact, Notched	>= 10.0 J/cm ²	>= 47.6 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	120 °C	248 °F	Short Term
	80.0 °C	176 °F	
	@Time 1.80e+7 sec	@Time 5000 hour	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 1.00e+12 ohm-cm	<= 1.00e+12 ohm-cm	IEC 60093
Surface Resistance	<= 1.00e+12 ohm	<= 1.00e+12 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	Light Blue	

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