

## Murtfeldt Murytal® ESD Acetal Copolymer, Conductive

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

### Material Notes:

Additives make this material conductive. The mechanical properties of the material are retained almost in their entirety. Special Properties:• High rigidity• Excellent ability to regain its form• Practically no moisture absorption• Good resistance to chemicals• Extremely good machinability• Suitable for devices and machines subject to Directive 94/9/EC (ATEX 95)Information provided by Murtfeldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Murtfeldt-Murytal-ESD-Acetal-Copolymer-Conductive.php](http://www.lookpolymers.com/polymer_Murtfeldt-Murytal-ESD-Acetal-Copolymer-Conductive.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	ISO 1183-1
Moisture Absorption at Equilibrium	0.20 % @Temperature 23.0 °C	0.20 % @Temperature 73.4 °F	50% RH
Water Absorption at Saturation	0.80 % @Temperature 23.0 °C	0.80 % @Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	dry; ISO 2039-2
Ball Indentation Hardness	160 MPa	23200 psi	dry; ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	dry; ISO 527-1
	50.0 MPa	7250 psi	50% RH; ISO 527-1
Elongation at Break	50 %	50 %	dry; ISO 527-1
	50 %	50 %	50% RH; ISO 527-1
Modulus of Elasticity	2.30 GPa	334 ksi	dry
	2.30 GPa	334 ksi	50% RH
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	dry; ISO 179-1/1eA
Coefficient of Friction, Dynamic	0.34	0.34	

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 µm/m-°C @Temperature 23.0 - 60.0 °C	52.8 µin/in-°F @Temperature 73.4 - 140 °F	

Thermal Properties	Metric °C	English °F	Comments
	@Temperature 23.0 - 100 °C	@Temperature 73.4 - 212 °F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	165 °C	329 °F	ISO 11357-1
Maximum Service Temperature, Air	90.0 °C @Time 7.20e+7 sec	194 °F @Time 20000 hour	
	105 °C @Time 1.80e+7 sec	221 °F @Time 5000 hour	
	140 °C @Time <=86400 sec	284 °F @Time <=24.0 hour	
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	
Glass Transition Temp, Tg	-50.0 °C	-58.0 °F	ISO 11357-1
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 10000 ohm-cm	<= 10000 ohm-cm	dry; IEC 60093
Surface Resistance	<= 10000 ohm	<= 10000 ohm	dry; IEC 60093

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	Natural/Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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