

## Murfeldt Murflor® Polytetrafluoroethylene, 25% Carbon

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Conductive Carbon Filled

### Material Notes:

The integration of 25% carbon increases the wear resistance, hardness, and creep strength of this material. Murflor® + Carbon is used, for example, when electrical conductivity is required and Material "S"® Black Antistatic cannot be used because the ambient temperature is too high. Special Properties: • Higher wear resistance than Murflor® • Very good slide properties • Low stick/slip effect • Electrically conductive • Suitable for devices and machines subject to Directive 94/9/EC (ATEX 95) Information provided by Murfeldt Kunststoffe GmbH & Co. KG.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Murfeldt-Murflor-Polytetrafluoroethylene-25-Carbon.php](http://www.lookpolymers.com/polymer_Murfeldt-Murflor-Polytetrafluoroethylene-25-Carbon.php)

Physical Properties	Metric	English	Comments
Density	2.10 g/cc	0.0759 lb/in <sup>3</sup>	ISO 1183-1

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	DIN 53505
Tensile Strength, Yield	15.0 MPa	2180 psi	ISO 527-1/-2
Elongation at Break	180 %	180 %	ISO 527-1/-2
Modulus of Elasticity	1.27 GPa	184 ksi	
Compressive Yield Strength	10.0 MPa @Strain 1.00 %	1450 psi @Strain 1.00 %	dry; ISO 604
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 179-1/1eA
Coefficient of Friction, Dynamic	0.12	0.12	
Sand Slurry	1.0	1.0	µm/km

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 µm/m-°C	52.8 µin/in-°F	
	@Temperature 23.0 - 100 °C	@Temperature 73.4 - 212 °F	
Melting Point	330 °C	626 °F	ISO 11357-1
Maximum Service Temperature, Air	260 °C	500 °F	
	@Time 7.20e+7 sec	@Time 20000 hour	
	300 °C	572 °F	
	@Time <=86400 sec	@Time <=24.0 hour	

Minimum Service Temperature, Air Thermal Properties	-200 °C Metric	-328 °F English	Comments
Glass Transition Temp, Tg	127 °C	261 °F	ISO 11357-1
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1000 - 1.00e+6 ohm-cm	1000 - 1.00e+6 ohm-cm	IEC 60093
Surface Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 ohm	IEC 60093

Compliance Properties	Metric	English	Comments
FDA	No	No	

Descriptive Properties	Value	Comments
Color	Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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