POLYSTONE® M black EL

Ultra High Molecular Weight Polyethylene

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics Excellent electrical conductivity High abrasion and wear resistance Typical field of application Mechanical engineering Electrical and electronic industries Bearing and packing industry

General Information					
Features	Conductivity				
	Good wear resistance				
	Good wear resistance				
Uses	Electrical/Electronic Applications				
	Engineering application				
Anno-2000	Black				
Appearance		11-1	T - I M - U I		
Physical	Nominal Value	Unit	Test Method		
Density	0.970	g/cm³	ISO 1183		
Water Absorption (Equilibrium, 23°C, 50%		0/			
RH)	< 0.050	%	ISO 62		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	63		ISO 868		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	700	MPa	ISO 527-2		
Tensile Stress (Yield)	20.0	MPa	ISO 527-2		
Tensile Strain (Break)	> 200	%	ISO 527-2		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength	No Break		ISO 179		
Thermal	Nominal Value	Unit	Test Method		
Continuous Use Temperature ¹	< 130	°C			
Melting Temperature	135	°C	ISO 11357-3		
CLTE - Flow	1.5E-4 - 2.3E-4	cm/cm/°C	DIN 53752		
Specific Heat	1900	J/kg/°C	DIN 52612		
Thermal Conductivity	0.40	W/m/K	DIN 52612		
Heat Deflection Temperature - Vicat B	79	°C	ISO 306		
Electrical	Nominal Value	Unit	Test Method		
Surface Resistivity	< 1.0E+4	ohms	IEC 60093		

Volume Resistivity	< 1.0E+3	ohms•cm	IEC 60093		
Flammability	Nominal Value	Unit	Test Method		
Flame Rating			UL 94		
3.00 mm	НВ		UL 94		
6.00 mm	НВ		UL 94		
Additional Information					
Service Temperature (Long Term): -250 to 80°C					
NOTE					
1.	Short Term				

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