

POLYSTONE® M black AST

Ultra High Molecular Weight Polyethylene

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics

Reduction in dust accumulation

High wear resistance

High impact strength

Typical field of application

Mechanical engineering

Bearing and packing industry

Electrical and electronic industries

General Information			
Features	Impact resistance, high		
	Good wear resistance		
Uses	Electrical/Electronic Applications		
	Engineering application		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.010	%	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)	22.0	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+6	ohms	IEC 60093
Volume Resistivity	< 1.0E+6	ohms · cm	IEC 60093

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		UL 94
6.00 mm	HB		UL 94
Additional Information			
Service Temperature (Long Term): -150 to 80°C			
NOTE			
1.	Short Term		

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WECHAT