POLYSTONE® M slide AST

Ultra High Molecular Weight Polyethylene

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics
Low coefficient of friction
High abrasion resistance
UV-resistant
Typical field of application
Sliding elements
Guide elements
Bearing and packing industry

General Information			
Features	Low friction coefficient Good UV resistance Good wear resistance		
Uses	Bearing		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.970	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.010	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	64		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): -250 to 80°C

NOTE	
1.	Short Term

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT