

# POLYSTONE® MR

Ultra High Molecular Weight Polyethylene

Röchling Engineering Plastics SE & Co. KG

## Message:

Product characteristics

Highly wear-resistant

Typical field of application

Drive and conveyor technology

Harbour construction

Mechanical engineering

General Information			
Features	Good wear resistance		
Uses	Conveyor Engineering application Architectural application field		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm <sup>3</sup>	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		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
Wear Resistance - Sand-slurry method	130		
Heat Deflection Temperature - Vicat B	79	°C	ISO 306
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature <sup>1</sup>	< 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
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms · cm	IEC 60093
Dielectric Strength	45	kV/mm	IEC 60243-1
Dielectric Constant	2.30		IEC 60250

Dissipation Factor (1 MHz)	4.0E-4		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
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			

- Short Term

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### 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

