POLYSTONE® DR

High Molecular Weight Polyethylene

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics
High sliding properties
Typical field of application
Mechanical engineering
Conveyor technology

General Information	
Features	Low Friction
Uses	Conveyors
	Engineered Applications

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.010	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	65		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	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]	-100 to 80.0	°C	
-- [2]	< 100	°C	
Melting Temperature	135	°C	ISO 11357-3
CLTE - Flow	1.5E-4 to 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+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength	45	kV/mm	IEC 60243-1
Dielectric Constant	2.30		IEC 60250
Dissipation Factor (1 MHz)	2.0E-4		IEC 60250

Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	HB		

NOTE	
1.	Long Term
2.	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

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