POLYSTONE® D black EL

High Molecular Weight Polyethylene

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics
Excellent electrical conductivity
High mechanical properties
Typical field of application
Mechanical engineering
Pump engineering
Electrical and electronic industries

General Information			
Features	Conductivity		
Uses	Pump parts Electrical/Electronic Applications Engineering application		
Appearance	Black		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.980	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)	65		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	900	MPa	ISO 527-2
Tensile Stress (Yield)	22.0	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]	< 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+4	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): -100 to 80°C

NOTE	
1.	Short Term

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