

POLYSTONE® G black EL

High Density Polyethylene

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics

Electrical conductive

UV-resistant

Excellent weldability

Typical field of application

Chemical engineering and tank building

Ventilation manufacturing

Electrical and electronic industries

General Information			
Features	Electrically Conductive		
	Good UV Resistance		
	Weldable		
Uses	Electrical/Electronic Applications		
	Engineered Applications		
	Tanks		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	0.990	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.010	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	67		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2
Tensile Stress (Yield)	26.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature			
-- 1	-50.0 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	67	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	IEC 60093
Volume Resistivity	1.0E+5	ohms·cm	IEC 60093
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		

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