

POLYSTONE® PPs grey

Polypropylene Homopolymer

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics

Flame retardant

High rigidity

High welding and processing properties

Typical field of application

Ventilation and equipment manufacturing

Pump engineering

Electrical and electronic industries

General Information			
Features	Flame Retardant		
	Good Processability		
	High Rigidity		
	Weldable		
Uses	Electrical/Electronic Applications		
	Pump Parts		
Appearance	Grey		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1300	MPa	ISO 527-2
Tensile Stress (Yield)	32.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature			
-- 1	0.00 to 100	°C	
-- 2	< 150	°C	
Melting Temperature	162 to 167	°C	ISO 11357-3
CLTE - Flow	1.2E-4 to 1.9E-4	cm/cm/°C	DIN 53752
Specific Heat	1700	J/kg/°C	DIN 52612
Thermal Conductivity	0.20	W/m/K	DIN 52612

Heat Deflection Temperature - Vicat B	81	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength	> 15	kV/mm	IEC 60243-1
Dielectric Constant	2.30		IEC 60250
Dissipation Factor (1 MHz)	1.9E-4		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	V-2		
6.00 mm	V-2		
NOTE			
1.	Long Term		
2.	Short Term		

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