

POLYSTONE® P homopolymer

Polypropylene Homopolymer

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics

High strength

High weldability

Excellent chemical and corrosion resistance

Typical field of application

Chemical engineering and tank building

Ventilation and equipment manufacturing

Pump engineering

General Information			
Features	Good Chemical Resistance		
	Good Corrosion Resistance		
	High Strength		
	Weldable		
Uses	Pump Parts		
	Tanks		
Physical	Nominal Value	Unit	Test Method
Density	0.910	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)	72		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	90	°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	2.40		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	HB		
6.00 mm	HB		
NOTE			
1.	Long Term		
2.	Short Term		

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