

PPH Extruded

Material Information



PPH Extruded

Product full identity:

Polypropylene Homopolymer

PPH offers lightweight durability, high chemical resistance, and excellent stiffness. With strong performance at elevated temperatures, it's ideal for chemical tanks, cutting boards, pumps, valves, and gaskets.

Properties

- High rigidity
- High temperature range (+100 to -0°C)
- Excellent chemical resistance
- Lightweight and weldable
- Very low moisture absorption <0.1%
- Food contact approved

Applications

- Chemical tanks
- Cutting boards
- Pumps
- Valves
- Gaskets

Forms



Solid Rod



Pressure Pipe



Square Tube



Rectangular Tube



Sheet



Channel



Angle



Weld Rod

PPH Extruded

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	DIN EN ISO 1183	0.91
Water absorption until saturation at 23°C	%	-	-
Maximum service temp. Upper temp limit – short term	°C	-	120
Maximum service temp. Upper temp limit – long term	°C	-	-
Lower temp limit	°C	-	0
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	DIN EN ISO 527	33
Elongation at yield	%	DIN EN ISO 527	8
Tensile strength at break	MPa	-	-
Unnotched impact strength	kJ/m ²	DIN EN ISO 179	No break
Notch impact strength	kJ/m ²	DIN EN ISO 179	9
Ball indentation / Rockwell hardness	MPa	-	-
Shore-D		DIN EN ISO 868	72
Flexural modulus of elasticity	MPa	-	-
Tensile modulus of elasticity	MPa	DIN EN ISO 527	1700
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	-	-
Heat deflection temperature HDT/B	°C	-	-
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	ISO 11359-2	1.6 x 10 ⁻⁴
Thermal conductivity at 23°C	W/mK	-	-
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	-	-
Surface resistivity	Ω	DIN EN 61340	≥10 ¹³
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		-	-
Dielectric loss factor at 1MHz		-	-
Dielectric strength	kV/mm	-	-
Comparative tracking index (CTI)		-	-
Additional Data	Unit	Test Method	Result
Bondability		-	-
Food compliance – FDA		FDA	Yes
Food compliance – EU		EU	Yes
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		DIN 4102	B2
Optical	Unit	Test Method	Result
N/A	N/A	N/A	N/A

All information provided in this Product Datasheet is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.