PPH SHEET / PLATE | Polypropylene Homopolymer (PP-H)

High-rigidity polypropylene for chemical equipment, tanks, ventilation systems and general industrial fabrication.

PRODUCT OVERVIEW

Material	Polypropylene Homopolymer (PP-H / PPH)	**Product Form**	Sheet / Plate
Typical Color	Natural / Grey / White / Black	**Dimensions**	Customized to order
Weldability	Excellent	**Machinability**	Excellent
Chemical Resistance	Excellent to many acids, alkalis and salts*	**Moisture Absorption**	Very low

TYPICAL TECHNICAL PROPERTIES

Property	Test Method	Unit	Typical Value
Density	DIN EN ISO 1183-1	g/cm³	> 0.90
Water absorption	DIN EN ISO 62	%	< 0.1
Yield stress	DIN EN ISO 527	MPa	> 30
Elongation at break	DIN EN ISO 527	%	> 50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	> 1,500
Notched impact strength	DIN EN ISO 179	kJ/m²	> 4
Shore hardness	DIN EN ISO 868	Shore D	> 70
Melting temperature	ISO 11357-3	°C	162 - 167
Thermal conductivity	DIN 52612-1	W/(m·K)	0.20
Specific heat capacity	DIN 52612	kJ/(kg·K)	1.70
Coefficient of linear thermal expansion	DIN 53752	10^{-6}/K	120 - 190
Long-term service temperature	Typical reference	°C	0 to +100*
Short-term service temperature (max.)	Typical reference	°C	Up to +150*
Vicat softening temperature (Vicat B)	DIN EN ISO 306	°C	Approx. 90
Flammability (3 mm / 6 mm)	UL 94	Class	HB

KEY FEATURES

- High rigidity and dimensional stability
- Good heat resistance
- Excellent weldability and fabrication
- Low water absorption
- Good electrical insulating properties

TYPICAL APPLICATIONS

- Chemical storage and process tanks
- Electroplating and pickling equipment
- Scrubbers and exhaust-air treatment
- Ventilation ducts and industrial piping
- Machined and fabricated industrial components

IMPORTANT NOTE

The values above are typical reference values for PP-H material and are not a Certificate of Analysis (COA) or a product guarantee. Actual properties may vary with resin grade, color, sheet thickness, manufacturing process and test conditions. Chemical and temperature suitability must be confirmed against the actual medium, concentration, pressure, mechanical load and operating temperature. Food-contact, flame-retardant, UV-stabilized or other special grades should be specified separately when required.