

PRODUCT DATA SHEET (REV20260123)

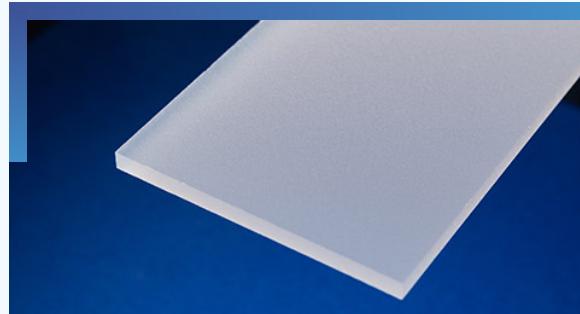
PPH POLYPROPYLENE (HOMOPOLYMER) SHEET

Achieve maximum structural integrity in demanding environments with SRT Polypropylene Homopolymer (PPH). Engineered for high stiffness and superior thermal performance, this material is the industry standard for chemical processing and industrial engineering applications.

Unlike copolymer grades, SRT PPH maintains its rigidity and tensile strength at higher temperatures, making it the premier choice for structural chemical tanks and laboratory furniture. It is highly resistant to aggressive chemicals and offers a low-density, cost-effective solution for heavy-duty fabrication.

KEY ADVANTAGES

- Maximum stiffness and structural rigidity
- Superior thermal resistance (up to 100°C continuous)
- Excellent chemical resistance to acids and alkalis
- Very low moisture absorption (<0.01%)
- FDA and EU food contact compliant grades
- High surface hardness and scratch resistance



TYPICAL APPLICATIONS

- Chemical Processing: Construction of high-capacity storage tanks, pickling lines, and electrolytic plating baths.
- Laboratory Engineering: Manufacture of corrosion-resistant fume cupboards, laboratory benches, and ventilation systems.
- Wastewater Treatment: Components for water purification systems, filter plates, and industrial piping manifolds.
- Electrical Insulation: High-performance insulating panels for industrial control systems.



AVAILABLE DIMENSIONS

- Sizes: 2000 x 1000 mm | 3000 x 1500 mm
- 2 - 30 mm
- Full Sheet or Cut-to-size available



The information contained within this datasheet is for guidance only.

The data is not exhaustive. All figures quoted are nominal. Any applications should be checked with SRT Plastics prior to use.

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PPH **POLYPROPYLENE** (HOMOPOLYMER) SHEET

PROPERTY	VALUE	UNIT	STANDARD
PHYSICAL PROPERTIES			
Density	0,91	g/cm ³	ISO 1183
Water Absorption	<0,01	%	ISO 62
MECHANICAL PROPERTIES			
Tensile Strength	33	MPa	ISO 527
Elastic Modulus	1400	MPa	ISO 527
Flexural Modulus	1450	MPa	ISO 178
Charpy Impact (Unnotched)	20	kJ/m ²	ISO 179
Shore Hardness	72	D Scale	ISO 868
Elongation at Yield	9	%	ISO 527
THERMAL PROPERTIES			
Max Service Temperature (Long Term)	100	°C	-
Vicat Softening Temp. (50N)	150	°C	ISO 306
ELECTRICAL			
Dielectric Strength	70	kV/mm	IEC 60243
Surface Resistivity	10 ¹⁴	Ω	IEC 60093
PROCESSING			
Melt Flow Rate (MFR)	0,3 - 0,5	g/10 min	ISO 1133

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