

PRODUCT DATA SHEET (REV20260123)

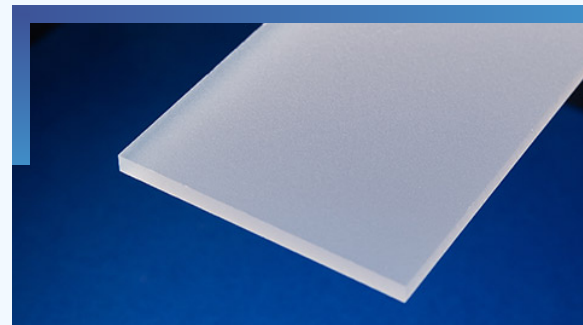
## PPC **POLYPROPYLENE** (COPOLYMER) SHEET

Prioritize toughness and mechanical survival with SRT Polypropylene Copolymer (PPC). By incorporating ethylene into the polymer structure, this sheet offers significantly enhanced impact resistance and ductility compared to standard homopolymers.

SRT PPC is specifically engineered for environments subject to high mechanical stress or cold-weather conditions where other plastics might fail. It remains ductile and crack-resistant at temperatures as low as -20°C, making it the ultimate material for "living hinge" applications and durable industrial containers.

### KEY ADVANTAGES

- Exceptional impact strength (even at low temperatures)
- High ductility and fatigue resistance (Living Hinge)
- Superior stress-crack resistance
- Excellent moisture barrier properties (<0.01%)
- Lightweight with a high strength-to-weight ratio
- Easy to weld and fabricate



### TYPICAL APPLICATIONS

- Automotive & Transport: Protective bumpers, interior trim components, and durable cladding for transport vehicles.
- Cold Storage: Packaging, bins, and lining for refrigerated facilities where impact resistance in the cold is vital.
- Hinged Components: Cases and lids featuring integrated living hinges.
- Protective Guards: Heavy-duty machine guards in unheated workshops or high-vibration environments.



### AVAILABLE DIMENSIONS

- Sizes: 2000 x 1000 mm | 3000 x 1500 mm
- 2 - 20 mm
- Full Sheet or Cut-to-size available



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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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PPC **POLYPROPYLENE** (COPOLYMER) SHEET

PROPERTY	VALUE	UNIT	STANDARD
PHYSICAL PROPERTIES			
Density	0,90	g/cm <sup>3</sup>	ISO 1183
Water Absorption (24h)	<0,01	%	ISO 62
MECHANICAL PROPERTIES			
Tensile Strength	26	MPa	ISO 527
Elastic Modulus	1100	MPa	ISO 527
Flexural Modulus	1150	MPa	ISO 178
Charpy Impact (Unnotched)	No Break	kJ/m <sup>2</sup>	ISO 179
Charpy Impact (Notched) at -20°C	5	kJ/m <sup>2</sup>	ISO 179
Shore Hardness	67	D Scale	ISO 868
Elongation at Break	>400	%	ISO 527
THERMAL PROPERTIES			
Max Service Temp (Long Term)	80	°C	-
Vicat Softening Temp. (50N)	145	°C	ISO 306
ELECTRICAL PROPERTIES			
Dielectric Strength	60	kV/mm	IEC 60243
PROCESSING			
Melt Flow Rate (MFR)	0.5 - 0.8	g/10 min	ISO 1133

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