

PP

Polypropylene (PP) is a rigid and crystalline thermoplastic used widely in everyday objects such as packaging trays, household products, battery cases, medical devices, etc. PP belongs to the polyolefin family of polymers and is one of the top three most widely used polymers today. Polypropylene has applications both as a plastic and a fibre in the Automotive Industry, as well as in Industrial Applications, Consumer Goods, and the Furniture Market. It has the lowest density among commodity plastics.

Typical Property Values

Property	Item	Test Method	Units	Result
Physical	Melt Flow Index, MFI	ASTM D1238	g/10min	1.7
	Density	ISO 1133	g/cc	1.127
	Temperature		°C	230
Mechanical	Tensile Strength at Yield	ASTM D638	MPa	35.3
	Elongation at Yield	ASTM D638	%	12
	Flexural Modulus	ASTM D790	MPa	1717
	Rockwell Hardness	ASTM D785	-	R95
	Izod Impact, Notched (1/8 in)	ASTM D256	J/m	53.9
Thermal	DTUL@66psi	ASTM D648	°C	95
Other	Water Absorption	ASTM D570	%	0.02
	Density	ASTM D792	kg/m ³	900

PP Specifications

Property	Specifications
Thickness	1.0mm - 12.0mm
Max Width	1220mm
Length	No Limit (sheet) / Standard Size 1.22x1.83 or 1.22 x 2.44
Colour	Natural or custom colours available upon request

Remarks

- The data presented above represents values from our testing of the material. It is the responsibility of the user to test and confirm our materials are suitable for their intended applications. All information and technical assistance is given without warranty or guarantee and is subject to change without notice.
- Unless otherwise agreed to in writing, all products are sold strictly pursuant to our standard conditions of sale.
- Please contact your Optima+ sales representative for any questions or enquiries regarding special applications.

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The Plastics Sheets Specialist