PP

Polypropylene

DESIGNATION	CHEMICAL NAME	TYPE
PP	Polypropylene	Thermoplastic

General description

Together with PE, PP belongs to the polyolefin group.
The material has good chemical resistance and very good fatigue strength (hinge effect).

Processing

PP is available as semi-finished products in the form of sheets, rods and tubes.
The material is suitable for machining and thermoforming.

Applications

Vacuum-formed covers.
Pipe systems, vats and tanks in the chemical industry.
Wall cladding in the food industry.

Special features

A versatile material with good temperature resistance.
Can become somewhat brittle in severe cold.
Food contact approval for certain types/products.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	0.91
Tensile strength	DIN 53455	N/mm^2	20-30
Impact strength at 23 °C	DIN 53453	kJ/m^2	No break
Modulus of elasticity	DIN 53457	N/mm^2	1150
Elongation at break	DIN 53455	%	>50
Service temperature, continuous	-	°C	-10/+90
Thermal expansion	ASTM D 896	mm/m/°C	0.2
Flammability	UL 94		HB

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

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