

POLYPROPYLENE SPECIFICATIONS SHEET

DETAILS

Chemical Name: Polypropylene Abbreviation: PP Properties (Colour): Beige Properties (Form): Rod, Sheet Machining: Is soft to machine, however machines well. Grades: Standard PP Chemical Resistance: Very good resistance to acids. Does not like benzene or alcohol.

KEY BENEFITS

- Can be heat formed or bent and welded
- Resists UV and Ozone exposure better than PVC

MECHANICAL PROPERTIES

Density r (g/cm3)	0.91
Tensile Strength at Yield s (MPa)	35
Elongation at Break %	650
Modulus of Elasticity Tensile Et (Mpa)	1300
Modulus of Elasticity Bending Eb (Mpa)	-
Impact Strength kJ/mm2	NO BREAK
Hardness Ball Indent	80
Creep 1 % after 1000hr MPa	22
Coefficient of friction against Steel m	0.3

POLYPROPYLENE (CONT.)

THERMAL PROPERTIES

Melting Point °C	165
Glass Transition Temperature °C	-18
Thermal Conductivity W/M°C	0.22
Specific Heat J/(g.K)	1.7
Coefficient of Linear Expansion α 10-6 .°K	110
Safe Working Temp. Short Term °C	100
Safe Working Temp. Continuous °C	65
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ELECRICAL PROPERTIES

Dielectric Constant Î106 Hz	2.25
Dielectric loss Factor tand 106 Hz	0.0002
Volume Resistance W.cm	>10 ¹⁷
Surface Resistance W	>1013
Dielectric Strength kV/mm	100
Moisture Absorption % (at 50%RH)	0.01

Whilst all care has been taken to provide accurate & up to date information, we cannot provide legal certification of properties. We recommend that this information be used as a design guide only. Actual testing should be undertaken to confirm data if certification is required.

