



POLYPROPYLENE (PP)

PolyPropylene (Natural & Grey)



PRODUCT CAPABILITIES:

STOCK SHAPES

- Sheet : 15mm – 50mm (Natural Only)
- Rod : 15mm – 100mm

ADVANTAGES:

- Easy to Machine
- No Moisture Absorption
- High Impact Resistance Strength
- Chemical & Corrosion Resistant
- Very Good Electrical Insulation

PRODUCT COLORS:

- Natural
- Grey

APPLICATIONS INCLUDE:

- Tanks – Secondary Containment
- Die Cutting Pads
- Fabricated Parts / Living Hinge Parts
- Fire Truck Water And Foam Tanks

SIMONA

GENERAL PROPERTIES	TEST METHOD OR UL TEST	PP NATURAL Typical Values	PP GREY Typical Values
PHYSICAL			
Specific Gravity (g/cm ³)	ISO 1183	0.905	0.915
Water Absorption, 24 hrs (%)	-	-	-
MECHANICAL			
Yield Stress (MPa)	ISO 527	30	33
Tensile Modulus of Elasticity (MPa)	ISO 527	1,400	1,700
Elongation at Yield (%)	ISO 527	8	8
Elongation at Break (%)	ISO 527	70	70
Impact Strength (kJ/m)	ISO 179	No Break	No Break
Notched Impact Strength (kJ/m ²)	ISO 179	7	9
Shore D Hardness	ISO868	70	72
THERMAL			
Mean Coefficient of Linear Thermal Expansion (K E-1)	DIN 53752	1.6 x 10 ⁻⁴	1.6 x 10 ⁻⁴
Temperature Range, (°C)	-	0 to +100	0 to +100
Thermal Conductivity (W/m.K)	DIN 52612	0.22	0.22
Fire Behaviour	DIN 4102	Normal	Normal
ELECTRICAL			
Surface Resistivity (ohms/sq)	IEC 60093	10 ¹⁴	10 ¹⁴
Dielectric Strength (kV/mm)	IEC 60243-1	58	52

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.