



Material: PPC (Polypropylene)

Polypropylene Co-Polymer's lightweight properties, temperature and chemical resistance and low friction surface make it an excellent modern replacement for more traditional materials such as metal and wood.

High mechanical strength and tensile strength but a low notched impact strength.

Polypropylene resists stress cracking and is easy to weld.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Natural/Black
Density	ISO 1183	g/cm ³	0.91
Water Absorption	DIN 53495	%	0.01
Chemical Resistance	DIN 53476	-	DIN 8075
Service Temp Upper	-	°c	95
Service Temp Lower	-	°c	-20
Tensile strength at yield	ISO 527	MPa	26
Elongation at yield	ISO 527	%	16
Tensile strength at break	ISO 527	MPa	-
Elongation at break	ISO 527	%	>150
Impact Strength	ISO 179	kJ/m ²	No break
Notched Impact Strength	ISO 179	kJ/m ²	60
Rockwell hardness	ISO 2039-1	MPa	50
Elastic modulus	ISO 527	MPa	1100
Vicat Softening temp VST/B/50	ISO 306	°c	90
Heat Deflection temp HDT/B	ISO 75	°c	90
Linear thermal expansion coefficient	DIN 53752	K ⁻¹ x10 ⁻⁴	1.0
Thermal Conductivity at 20°c	DIN 52612	W/(Km)	0.22
Volume Resistivity	VDE 0303	Ohm/cm	>10 ¹⁶
Surface Resistance	VDE 0303	Ohm	>10 ¹³
Dielectric Constant @ 1MHZ	DIN 53483	-	-
Dielectric loss factor @ 1MHZ	DIN 53483	-	-
Dielectric Strength	VDE 303	kV/mm	20-40
Tracking Resistance	DIN 53480	-	KB600
Bondability	-	-	Yes
Physiology indifference	FDA	-	No
Friction Coefficient	DIN 53375	-	0.6
Flammability	UL94	-	V-O

Availability:

Available in a wide variety of thicknesses from 1-15mm in many sizes, colours and finishes. Please call for further details.

Applications:

Chemical storage tanks, Processing equipment, Fans, Pumps and valves, Machined components, Cladding, Partitioning.