

Technical Data Sheet

Polypropylene

Advantages

- Low cost
- Extremely tough
- Good chemical resistance
- Low moisture absorption
- Machines well / easy to fabricate
- FDA compliant grades available
- Propylene is auto claveable for usage in biohazardous environments
- The best joining method is hot air or nitrogen welding. Can be mechanically joined with screws or rivets. Ultrasonic inserts work well
- Excellent resistance to dilute and concentrated Acids, Alcohols, Bases and Mineral Oils
- Good resistance to Aldehydes, Esters, Aliphatic Hydrocarbons, Ketones and Vegetable Oils
- Limited resistance (moderate attack and suitable for short term use only) to Aromatic and
- Halogenated Hydrocarbons and Oxidizing Agents

	Test Standard	Units	Guide Values
General			
Density	ISO1183	g/cm ³	0.91
Temperature range	-	°C	-20 to +80
Mechanical Properties			
Yield stress	DIN EN ISO 527	MPa	26
Elongation at yield	DIN EN ISO 527	%	7
Modulus of elasticity in tension	DIN EN ISO	MPa	1200
Impact strength	DIN EN ISO 179	kJ/m ²	without break
Ball indentation hardness	DIN EN ISO 2039-1	MPa	50
Thermal Properties			
Mean coefficient of linear thermal expansion	DIN 53752	K-1	1,6× 10-4
Fire behaviour	DIN 4102	-	B2 normal flammability
Electrical Properties			
Dielectric strength	DIN IEC 60243-1	kV/mm	58
Surface resistivity	DIN IEC 60093	Ohm	1014

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