

POLYPROPYLENE



Typical Properties*

Property	Test Method	Units	Values
PHYSICAL			
Density	ISO 1183	g/cm ³	>0.90
Flammability (Thickness 3mm/6mm)	UL 94		HB
Water absorption	ISO 62	%	0.1
MECHANICAL			
Yield stress	ISO 527	MPa	>30
Elongation at break	ISO 527	%	>50
Tensile modulus	ISO 527	MPa	>1500
Notched impact strength	ISO 179	kJ/m ²	>4
Shore hardness	ISO 868	Scale D	>70
THERMAL			
Melting temp	ISO 11357-3	°C	162
Thermal conductivity	DIN 52612-1	W/(m*k)	0.20
Thermal capacity	DIN 52612	kJ/(kg*K)	1.70
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ /K	120-190
Service temperature, long term	Average	°C	0-100
Service temperature, short term (max)	Average	°C	150
Vicat softening temperature	ISO 306, Vicat B	°C	90
ELECTRICAL			
Dielectric constant	ISO 60250		2.4
Dielectric dissipation factor	ISO 60250		0.00019
Volume resistivity	DIN EN 62631-3-1	Ω*cm	10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ω	10 ¹⁴
Dielectric strength	IEC 60243	kV/mm	>40

*Typical properties are not intended for specification purposes.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.