

Technical Properties for Polypropylene

	Norm	Unit i.e.	Value
<u>Physical Properties</u>			
Specific Gravity	ISO 1183	g/cm ³	0.91
Water Absorption	DIN 53495	%	0.01
Chemical resistance	-	-	-
Maximum service temp	-	degrees C	100
Minimum service temp	-	degrees C	5
<u>Mechanical Properties</u>			
Tensile strength at yeild	ISO 527	MPa	33
Elongation at yeild	ISO 527	%	14
Tensile strength at break	ISO 527	MPa	-
Elongation at break	ISO 527	%	>50
Impact strength	ISO 179	kJ/m ²	0.B.
Notch impact strength	ISO 179	kJ/m ²	13
Ball indentation (Rockwell)	ISO 2039	MPa	71
Shore D	DIN 53505	-	70
Flexural strength	ISO 178	MPa	-
Modulus elasticity	ISO 527	MPa	1450
<u>Thermal Properties</u>			
Vicat softening temp	ISO 306	degrees C	83
Heat deflection Temp	ISO 75	degrees C	95
Coefficient of expansion	DIN 53752	K-1 x 10-4	1.5
Thermal conduct at 20	DIN 52612	W/(mxK)	0.22
<u>Electrical Properties</u>			
Volume resistivity	VDE 0303	x cm	>10 16
Surface resistivity	VDE 0303	-	>10 16
Dielectric constant @ 1MHz	DIN 53483	-	2.3
Diel. loss factor @ 1 MHz	DIN 53483	-	0.0002
Dielectric strength	VDE 0303	kV/mm	-
Tracking resistance	DIN 53480	-	KB 600
<u>Additional Data</u>			
Bondability	-	-	0
Friction Coeficient	DIN 53375	-	0.3
Flamability	UL 94	-	HB
<u>Chemical properties</u>			
Acid resistance			+
Hydroxid resistance (dilute)			+
Hydrocarbonat resistance			+
CKW resistance			0
Aromatic resistance			-
Ketone resistance			+
Resistance to hot water			+