



## TECHNICAL DATA SHEET POLYPROPYLENE®

	Unit	Test method	PP
<b>Physical Properties</b>			
Specific gravity ( $\rho$ )	g/cm <sup>3</sup>	ISO 1183	0,9
Water absorption	%	DIN 53495	0,01
Upper temperature limit	°C	-	100
Lower temperature limit	°C	-	5
<b>Mechanical Properties</b>			
Tensile strength at yield ( $\sigma_s$ )	MPa	ISO 527	33
Elongation at yield ( $\epsilon_s$ )	%	ISO 527	14
Elongation at break ( $\epsilon_R$ )	%	ISO 527	>50
Impact strength ( $a_n$ )	kJ/m <sup>2</sup>	ISO 179	o.B.
Notch impact strength ( $a_k$ )	kJ/m <sup>2</sup>	ISO 179	13
Ball indentation hardness (Hk)/Rockwell	MPa	ISO 2039-1	71
Modulus of elasticity (Et)	MPa	ISO 527	1450
<b>Thermal Properties</b>			
Vicat softening temperature VST/B/50	°C	ISO 306	154
Vicat softening temperature VST/A/50	°C	ISO 306	-
Heat deflection temperature HDT/B	°C	ISO 75	103
Heat deflection temperature HDT/A	°C	ISO 75	-
Coef. of linear therm. expansion ( $\alpha$ )	K <sup>-1</sup> X 10 <sup>-4</sup>	DIN 53752	1.5
Thermal conductivity at 20°C ( $\lambda$ )	W/(m*K)	DIN 52612	0.22
<b>Electrical Properties</b>			
Volume resistivity ( $\rho_D$ )	$\Omega \times \text{cm}$	VDE 0303	$\geq 10^{16}$
Surface resistivity ( $R_o$ )	$\Omega$	VDE 0303	$\geq 10^{13}$
Dielectric constant at 1 MHz ( $\epsilon_r$ )		DIN 53483	2.3
Tracking resistance		DIN 53480	KB >600
<b>Additional Data</b>			
Bondability			o
Physiol. Indifference according	FDA	EEC 90/128	+
Friction coefficient		DIN 53375	0.3
Flammability		UL 94	HB
UV stabilisation			o
<b>Chemical Properties</b>			
Acid resistance			+
Hydrolysis resistance (delute)			+
Hydrocarbonate resistance			+
CKW resistance			o
Ketone resistance			+
Resistance against hot water			+

### Application

- Drip Trays, Fume Cupboards, Storage Bins, Tunnel Linings and Tank Linings.

### Standard Options

SHEET: Extruded grey - 3000mm x 1500mm in 3mm to 25mm thick.

ROD: Extruded grey -  $\varnothing$ 10mm to  $\varnothing$ 200mm in 1000mm and 3000mm lengths.