



## TECHNICAL DATA SHEET PVC (WEARTHERM®)

	Unit	Test method	PVC-U
<b>Physical Properties</b>			
Specific gravity ( $\rho$ )	g/cm <sup>3</sup>	ISO 1183	1,36
Water absorption	%	DIN 53495	0,2
Chemical resistance	-	DIN 53476	DIN 8061
Upper temperature limit	°C	-	60
Lower temperature limit	°C	-	-15
<b>Mechanical Properties</b>			
Tensile strength at yield ( $\sigma_s$ )	MPa	ISO 527	55
Elongation at yield ( $\epsilon_s$ )	%	ISO 527	3
Tensile strength at break ( $\sigma_R$ )	MPa	ISO 527	30
Elongation at break ( $\epsilon_R$ )	%	ISO 527	33
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	3
Ball indentation hardn.(Hk) / Rockwell	MPa	ISO 2039-1	120
Flexural strength ( $\sigma_B$ 3,5%)	MPa	ISO 178	90
Modulus of elasticity (Et)	MPa	ISO 527	3000
<b>Thermal Properties</b>			
Vicat softening temp. VST/B/50	°C	ISO 306	753
Heat deflection temp. HDT/B	°C	ISO 75	724
Coef. of linear therm. expansion ( $\alpha$ )	K <sup>-1</sup> x 10 <sup>-4</sup>	DIN 53752	0,8
Thermal conductivity at 20 °C ( $\lambda$ )	W/(m*K)	DIN 52612	0,14
<b>Electrical Properties</b>			
Volume resistivity ( $\rho_D$ )	$\Omega \times \text{cm}$	VDE 0303	$\geq 10^{15}$
Surface resistivity ( $R_o$ )	$\Omega$	VDE 0303	$\geq 10^{13}$
Dielectric constant at 1 MHz ( $\epsilon_r$ )		DIN 53483	3
Diel. loss factor at 1 MHz ( $\tan\delta$ )		DIN 53483	0,01
Dielectric strength	kV/mm	VDE 0303	20-40
Tracking resistance		DIN 53480	KB 600
<b>Additional Data</b>			
Bondability			+
Physiol. Indifference according	FDA	EEC 90/128	+5)
Friction coefficient		DIN 53375	0,6
Flammability		UL 94	V-0
UV stabilisation			o
<b>Chemical Properties</b>			
Acid resistance			+
Hydrolysis resistance (delute)			+
Hydrocarbonat resistance			+
CKW resistance			-
Aromatic resistance			o
Ketone resistance			-
Resistance against hot water			-

## Application

- Ducts
- Electrical boxes
- Tanks
- Wastewater treatment
- Filters valves
- Fume hoods
- Packaging machine parts

## Options

SHEET: Grey - 2440mm x 1220mm & 2000mm x 1000mm in 1.5mm to 60mm thick.

(Hexagonal & Angle available on request)

ROD: Grey & Red - Ø6mm to Ø300mm in 2000mm lengths.

SQUARE SECTION: Grey - 10mm x 10mm to 200mm x 200mm in 2000mm lengths.



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