



CUT TO SIZE  
plastics

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## TECHNICAL DATA SHEET UHMWPE WEAREX®

Properties	Typical Values	Test Methods
<b>Physical</b>		
Density (g/cm <sup>3</sup> )	0.930 - 0.940	ASTM D 792
Reduced Viscosity (dl/g)	~ 23	ISO R 1 191
Melt Flow Index (g/10 minutes)	<0.01	DIN 53735
<b>Mechanical</b>		
Notched Impact Strength (mJ/mm <sup>2</sup> )	140 / 180	DIN 53453
Tensile Strength at 23°C (N/ mm <sup>2</sup> )	44	DIN 53455
Elongation at break at 23°C (%)	~ 450	DIN 53455
Tensile Strength at 120°C (N/ mm <sup>2</sup> )	22	DIN 53455
Elongation at break at 120°C (%)	~ 800	DIN 53455
Limiting Flexural Stress (N/ mm <sup>2</sup> )	27	DIN 53452
Shore Hardness D	64 - 67	DIN 53505
<b>Thermal</b>		
Dimension Heat Stability	90°C	DIN 53461
Crystalline Melting Range	135 - 138°C	Microscope
Linear Expansion 20 to 100°C (°K <sup>-1</sup> )	2.10-4	DIN 52328
Thermal Conductivity (W/m.°K)	0,42	DIN 52612
<b>Electrical</b>		
Volume Resistance (ohms.cm)	>10 <sup>18</sup>	DIN 53482
Surface Resistance (ohms)	>10 <sup>13</sup>	DIN 53482

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For the most recent technical data and free application advice, please call Cut To Size Plastics on: (02) 9681 0400.