

**Raw Material** UHMWPE (Ultra High Molecular Weight Polyethylene)

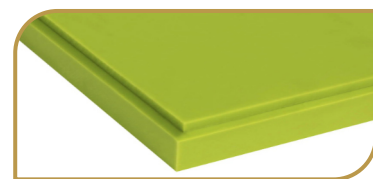
General Properties	Test Method	Unit	Value
Specific Gravity	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1.03
Water Absorption	DIN EN ISO 62	%	<0.02
Food Compliance	-	FDA/BfR	YES
UV Stability	-	-	YES
Mechanical Properties			
Tensile Modules Of Elasticity	DIN EN ISO 527	N/mm <sup>2</sup>	700
Notched Impact Strength (Charpy)	DIN EN ISO 179	kJ/m <sup>2</sup>	130
Shore Hardness	DIN EN ISO 868	Scale D	68
Wear Resistance	Sand Slurry	%	≥ 70
Yield Stress	DIN EN ISO 527	MPa	>17
Coefficient Of Friction (Dynamic)	-	μ	0.15
Thermal Properties			
Softening Temperature	ISO 11357-3	°C	85
Thermal Conductivity	DIN 52612-1	W/m*k	0.40
Coefficient Of Linear Thermal Expansion	DIN EN ISO 11359	10 <sup>-6</sup> C <sup>-1</sup>	1.5
Service Temperature, Long Term	Average	°C	- 50 / + 85
Service Temperature, Short Term (MAX)	Average	°C	120
Flammability	UL 94 (3-6mm thickness)	°C	HB
Electrical Properties			
Surface Resistance	IEC 60093	Ω	10 <sup>12</sup>
Insulation Resistance	IEC 60093	Ωcm	10 <sup>14</sup>
Dielectric Strength	IEC 60243	KV/mm	40

**Applications:**

- Conveying Components
- Wear Profiles
- Sprockets
- Wear Strips
- Scrolls
- Chain Guides

**Characteristics:**

- Excellent Wear Resistance
- Excellent Abrasion Resistance
- Sand Slurry Test ≥ 70%
- Excellent Chemical Composition
- No Water Absorption



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