



Conductive / Anti Static UHMWPE Polyethylene

Technical Properties

Physical Properties	Test	Unit	Result
1. Specific gravity	ISO 1183-1	g/cm ³	0.93
2. Water absorption till saturation 23°C	-	%	0.1
3. Maximum service temp. Upper temp limit - Short Term (no stronger mechanical stress involved)	-	°C	120
Long Term	-	°C	85
5. Lower temp limit	-	°C	-100
Mechanical Properties	Test	Unit	Result
1. Tensile strength at yield	ISO 527	MPa	>18
2. Elongation at yield	ISO 527	%	16
3. Abrasion (sand slurry test)	ISO 5527	%	>110
4. Elongation	ISO 527	%	>350
5. Impact strength	ISO 179	kJ/m ²	no break
6. Notch impact strength	ISO 179	kJ/m ²	>140
7. Ball indentation	ISO 2039-1	MPa	38
8. Shore-D	DIN 53505	-	64
9. Modulus of elasticity	ISO 527	MPa	700
Thermal Properties	Test Method	Unit	Result
1. Vicat-softening point	ISO 306	°C	80
2. Coefficient of linear thermal expansion	ISO 11359	%-1	1.5-2 10 ⁻⁴
3. Thermal conductivity	DIN 52612	W/(m*K)	>0.4
Electrical Properties	Test Method	Unit	Result
1. Surface resistivity	IEC 6093	Ω	10 ⁴
2. Dielectric strength	IEC 60243	kV/mm	-
Additional Data	Test Method	Unit	Result
1. Bondability	-	-	-
2. Food compliance	FDA	-	+
3. Flammability	UL 94	-	HB

All The above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.