



SPECIFICATION SHEET

PP6-10 GRADE 1000 UHMWPe

Properties	Test Method	Unit	Result
Specific gravity	ISO 1182	g/cm ³	0.93
Water absorption	ISO 62	%	0.01
Maximum service – higher temp limit	-	°C	80
Maximum service – lower temp limit	-	°C	-260
Mechanical			
Tensile strength at yield	ISO 527	mPa	21
Elongation at yield	ISO 527	%	11
Tensile Strength	ISO 527	mPa	-
Elongation at break	ISO 527	%	>300
Impact strength	ISO 179	kJ/m ²	No break
Notch impact strength	ISO 179	KJ/m ²	>200
Ball indentation/ Rockwell hardness	ISO 2039-1	mPa	38
Shore – D	DIN 53505	-	64
Flexural Strength	ISO 178	mPa	-
Modulus of elasticity	ISO 527	mPa	700
Thermal			
Vicat – softening point VST/B/50	ISO 306	°C	82
Heat deflection temperature HDT/B	ISO 75	°C	-
Heat deflection temperature HDT/A	-	°C	-
Coefficient / linear thermal expansion	Din 53752	K ⁻¹ *10 ⁻	1.8
Thermal conductivity at 20°C	DIN 52612	w/(m*k)	0.38

Properties	Test Method	Unit	Result
Volume resistivity	VDE 0303	$\Omega \times m$	-
Surface resistivity	-	Ω	$<10^{14}$
Dielectric constant at 1MHz	-	-	-
Dielectric loss factor at 1MHz	DIN 53483	-	-
Dielectric strength	VDE 0303	kV/mm	44
Tracking resistance	IEC 60112	-	>600
Additional			
Bondability	-	-	-
Food compliance	FDA	-	Resistant
Flammability	UL 94	-	HB

QUALITY ASSURED PRODUCTS WITH FULL TRACEABILITY

Care should be taken in selecting the most suitable quality for each application.

Advice is available but final responsibility remains with the customer.