

PREMIUM & MULTI MAT SYSTEM

Material Specifications (UHMW-PE)

Properties	Unit	Test method	UHMW-PE ISO-LEN 1000
Density of homogeneously moulded material	g/cm ³	DIN 53479	0,951
Molecular weight	Millionen	Light diffusion	ca. 0,6
Mechanical properties			
Tensile strength	N/mm ²	DIN 53455	28
Breaking strength +23°C	N/mm ²	DIN 53455	38
Elongation @ break +23°C		DIN 53455	>600
Torsional stiffness +23°C	N/mm ²	DIN 53477	350
Torsional stiffness -40°C	N/mm ²	DIN 53477	700
Ball indentation hardness 30 sec.	N/mm ²	DIN 53456	46
Shore hardness D		DIN 53505	64
Notched impact strength (15° angle)	mj/mm ²	DIN 53453	>30 o. Br.
Abrasion	%	Slurry-Test	250-350
Melting Point	°C	polarizing microscope	133
Thermal coefficient of linear expansion 23-80°C	°C ⁻¹ 1/K	DIN 52328	1,7-2,5 x 10 ⁻⁴ / K
Thermal conductivity @ 23°C	W/°C x m	DIN 52612	0,40
Dimensional stability under heat	°C	DIN 53461 / ISO/R 75	80
Electric properties			
Volume resistance	W x cm	DIN 53482	>10 ¹⁷
Surface resistance	W	DIN 53482	>10 ¹⁴
Dielectric strength	KV / cm	DIN 53481	150



Conductivity <10 - 6

The data mentioned in this brochure are average values ascertained by current statistical returns and tests, but we cannot accept any responsibility for their accuracy.



TECHNICAL
ADVICE



EASY
ORDERING



NEXT DAY
DELIVERY
Order by 4pm

BE CONFIDENT. BUY QUALITY.



T +44 (0)1952 671403 **E** sales@outriggerpads.co.uk **outriggerpads.co.uk**