

DATASHEET UHMWPE-D 61 SH-D NATURE

PROPERTIES	DIN STANDARD	UNIT	VALUE	UNIT	VALUE
Colour			NATURE		NATURE
spec. gravity	DIN 53479	kg/m ³	930	g/cm ³	0,93
Hardness 23°C/3 sek	DIN ISO 868	Shore D	61 ± 3	Shore D	61 ± 3
Hardness 23°C/15 sek	DIN ISO 868	Shore D	58 ± 3	Shore D	58 ± 3
ball indentation hardness	DIN 53456 H 135/30	MPa	≥ 36	psi	≥ 5200
Tensile strength	ASTM D 4745-11a	Mpa	≥ 40	psi	≥ 5800
Elongation at break	ASTM D 4745-11a	%	≥ 50	%	≥ 50
Izod impact strenght	ISO 180/1A	kJ/m	≥ 130		
Thermal conductivity	DIN 52 612	(J*10 ³) ÷ (m*h*K)	0,29	(J*10 ³) ÷ (m*h*K)	0,41
Coefficient of thermal expansion		K ⁻¹ * 10 ⁻⁵	15	K ⁻¹ * 10 ⁻⁵	15
Coefficient of friction		μ	0,25	μ	0,25
Service température min.		°C	-200	°F	-328
Service température max.		°C	+80	°F	+176
Young's modulus	DIN 53457	Mpa	680	Psi	98000

All the above data comes from random tests on current production, based on a standard sample according to ISO, DIN and ASTM. These standards cannot be applied directly to the building element.

Our technical advice, whether oral, written or test-based, is provided to the best of our knowledge, but should be considered non-binding. They do not dispense from testing the product to verify its suitability for the process and intended purpose.

The use and processing of the products is beyond our control and under your responsibility.

In case of liability, this will be limited to the value of the product delivered and used.

We guarantee the irreproachable quality of our products in accordance with our general conditions of sale and delivery.