

QUALITY DEPARTMENT

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

Technical data sheet

Date of issue: March 2024

Valid until: February 2027

ENGINEERING PLASTIC PRODUCTS

UHMWPE sheets

Polyplate PE-1000

PROPERTY	TEST METHOD	UNIT	VALUE
DENSITY	ISO 1183	kg/cm ³	930 - 940
MOLECULAR WEIGHT	ISO 1133	g/mol x 10 ⁶ mol	9,2
TENSILE STRENGTH AT YIELD (50 mm/min)	ISO 527-2/1A	MPa	17
TENSILE MODULUS (1h)	ISO 527	MPa	430
TENSILE CREEP MODULUS (1000h)	ISO 899-1	MPa	220
CHARPY IMPACT STRENGTH (14° V-NOTCH BOTH SIDES)	ISO 527	KJ/m ²	130
SHORE D HARDNESS	ISO 868	Shore D	64 - 66
VICAT SOFTENING POINT (1 kg)	ISO 306	°C	80

The information in this data sheet represents typical values and should not be used as a specification.