

QUALITY DEPARTMENT
 ISO 9001:2015
 ISO 14001:2015
 ISO 45001:2018

Declaration of Conformity
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ENGINEERING PLASTIC PRODUCTS
 UHMWPE SHEETS

Polyplate PE-1000

Based on material UHMWPE TICONA GUR 4150

PROPERTY	TEST METHOD	UNIT	VALUE
DENSITY	ISO 1183	kg/cm ³	930 - 940
MELT FLOW RATE (190°C/21,6 kg)	ISO 1133	g/10 min	-
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.