HMPE NATURAL



MAIN FEATURES

• Wear and abrasion resistance

Ridder flex®

- Good mechanical damping ability
- Good weldable
- Excellent mechanical properties

COLOUR Natural

PROPERTIES

	Typical value	Units	Test method
DENSITY	0.95	g/cm ³	
WATER ABSORPTION	0.01	%	DIN EN ISO 62
FLAMMABILITY (UL94)	НВ		DIN IEC 60695-11-10

MECHANICAL PROPERTIES

	Typical value	Units	Test method
MODULUS OF ELASTICITY (TENSILE TEST)	1100	Мра	DIN EN ISO 527-2
TENSILE STRENGTH	40	Мра	DIN EN ISO 527-2
TENSILE STRENGTH AT YIELD	25	Мра	DIN EN ISO 527-2
ELONGATION AT YIELD	10	%	DIN EN ISO 527-2
ELONGATION AT BREAK	>50	%	DIN EN ISO 527-2
MODULUS OF ELASTICITY (FLEXURAL TEST)	900	Мра	DIN EN ISO 178
COMPRESSION STRENGTH	20/35	MPa	EN ISO 604
COMPRESSION MODULUS	2300	Мра	EN ISO 604
IMPACT STRENGTH	Not broken	kJ/m²	DIN EN ISO 179-1eU
NOTCHED IMPACT STRENGTH	105	kJ/m²	DIN EN ISO 179-1eA
SHORE HARDNESS D	65		DIN EN ISO 868

THERMAL PROPERTIES

	Typical value	Units	Test method
GLASS TRANSITION TEMPERATURE	k.A	°C	DIN 53765
MELTING TEMPERATURE	136	°C	DIN 53765
SERVICE TEMPERATURE (LONG TERM)	80	°C	
SERVICE TEMPERATURE (SHORT TERM)	120	°C	

QUESTIONS? Any questions about products or make an enquiry? Simply call us or send us an e-mail.

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sales@ridderflex.nl

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INDUSTRIAL PLASTICS / INDUSTRIËLE KUNSTSTOFFEN

Ridder flex®

HMPE NATURAL



ELECTRICAL PROPERTIES

	Typical value	Units	Test method
SPECIFIC SURFACE RESISTANCE	10 14	Ω	DIN IEC 60093
SPECIFIC VOLUME RESISTANCE	10 ¹²	Ω*cm	DIN IEC 60093

AVAILABLE

SEMI-FINISHED PRODUCTS

SHEETING	5 to 100 mm*
ROD	Ø 20 to Ø 250 mm*
TUBE	At request

* Other dimensions can be delivered at request.

We produce customized finished HMPE products according to your specifications.

This can be based on a drawing or model.

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