



MAIN FEATURES

- Wear and abrasion resistance
- Good mechanical damping ability
- Good weldable
- Excellent mechanical properties

COLOUR | Black

PROPERTIES

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

MECHANICAL PROPERTIES

	Typical value	Units	Test method
MODULUS OF ELASTICITY (TENSILE TEST)	1100	Mpa	DIN EN ISO 527-2
TENSILE STRENGTH	40	Mpa	DIN EN ISO 527-2
TENSILE STRENGTH AT YIELD	27	Mpa	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	Mpa	DIN EN ISO 178
COMPRESSION STRENGTH	20/35	MPa	EN ISO 604
COMPRESSION MODULUS	2300	Mpa	EN ISO 604
IMPACT STRENGTH	Not broken	kJ/m ²	DIN EN ISO 179-1eU
NOTCHED IMPACT STRENGTH	105	kJ/m ²	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	



ELECTRICAL PROPERTIES

	Typical value	Units	Test method
SPECIFIC SURFACE RESISTANCE	10^{14}	Ω	DIN IEC 60093
SPECIFIC VOLUME RESISTANCE	10^{12}	$\Omega \cdot \text{cm}$	DIN IEC 60093

AVAILABLE

SEMI-FINISHED PRODUCTS

SHEETING	5 to 100 mm*
ROD	\varnothing 20 to \varnothing 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.

Any questions about products or make an enquiry? Simply call +31 180 46 34 71 or send us an e-mail at sales@ridderflex.nl