



## MAIN FEATURES

- Good slide and wear properties
- Good chemical resistance
- High hardness
- High stiffness
- High strength
- Good machinability

COLOUR | Black

## PROPERTIES

	Typical value	Units	Test method
DENSITY	1.41	g/cm <sup>3</sup>	
WATER ABSORPTION	0.05/0.1	%	DIN EN ISO 62
FLAMMABILITY (UL94)	HB		DIN IEC 60695-11-10

## MECHANICAL PROPERTIES

	Typical value	Units	Test method
MODULUS OF ELASTICITY (TENSILE TEST)	2800	Mpa	DIN EN ISO 527-2
TENSILE STRENGTH	67	Mpa	DIN EN ISO 527-2
TENSILE STRENGTH AT YIELD	67	Mpa	DIN EN ISO 527-2
ELONGATION AT YIELD	9	%	DIN EN ISO 527-2
ELONGATION AT BREAK	32	%	DIN EN ISO 527-2
FLEXURAL STRENGTH	91	MPa	DIN EN ISO 178
MODULUS OF ELASTICITY (FLEXURAL TEST)	2600	Mpa	DIN EN ISO 178
COMPRESSION STRENGTH	20/35	MPa	EN ISO 604
COMPRESSION MODULUS	2300	Mpa	EN ISO 604
IMPACT STRENGTH	150	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU
NOTCHED IMPACT STRENGTH	6	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA

## THERMAL PROPERTIES

	Typical value	Units	Test method
GLASS TRANSITION TEMPERATURE	-60	°C	DIN 53765
MELTING TEMPERATURE	166	°C	DIN 53765
SERVICE TEMPERATURE (LONG TERM)	100	°C	
SERVICE TEMPERATURE (SHORT TERM)	140	°C	



## ELECTRICAL PROPERTIES

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

## AVAILABLE

### SEMI-FINISHED PRODUCTS

SHEETING	5 to 100 mm*
ROD	$\varnothing$ 3 to $\varnothing$ 300 mm*
TUBE	At request

\* Other dimensions can be delivered at request.

*We produce customized finished POM-C 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](mailto:sales@ridderflex.nl)*