WEAR RESISTANT PLASTIC / SLIJTVASTE KUNSTSTOFFEN

## **Ridder flex**®

POLYAMIDE 6.6 / NYLON 6.6



#### **MAIN FEATURES**

- Good slide and wear properties •
- Resistant to many oils, greases and fuels •
- High toughness •

Good machinability

- High strength
- Electrically insulating

### COLOUR Natural

#### **PROPERTIES**

	Typical value	Units	Test method
DENSITY	1.15	g/cm <sup>3</sup>	
WATER ABSORPTION	0.2/0.4	%	DIN EN ISO 62
FLAMMABILITY (UL94)	НВ		DIN IEC 60695-11-10

### **MECHANICAL PROPERTIES**

	Typical value	Units	Test method
MODULUS OF ELASTICITY	3500	Мра	DIN EN ISO 527-2
TENSILE STRENGTH	85	Мра	DIN EN ISO 527-2
TENSILE STRENGTH AT YIELD	84	Мра	DIN EN ISO 527-2
ELONGATION AT YIELD	7	%	DIN EN ISO 527-2
ELONGATION AT BREAK	70	%	DIN EN ISO 527-2
FLEXURAL STRENGTH	110	MPa	DIN EN ISO 178
MODULUS OF ELASTICITY	3100	Мра	DIN EN ISO 178
COMPRESSION STRENGTH	20/35	MPa	EN ISO 604
COMPRESSION MODULUS	2700	Мра	EN ISO 604
IMPACT STRENGTH	Not broken	kJ/m²	DIN EN ISO 179-1eU
NOTCHED IMPACT STRENGTH	5	kJ/m²	DIN EN ISO 179-1eA

#### **THERMAL PROPERTIES**

	Typical value	Units	Test method
GLASS TRANSITION TEMPERATURE	47	°C	DIN 53765
MELTING TEMPERATURE	258	°C	DIN 53765
SERVICE TEMPERATURE (LONG TERM)	100	°C	
SERVICE TEMPERATURE (SHORT TERM)	170	°C	

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

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#### **ELECTRICAL PROPERTIES**

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

#### **AVAILABLE**

#### SEMI-FINISHED PRODUCTS

SHEETING	2 to 100 mm*
ROD	Ø 4 to Ø 200 mm*
TUBE	At request

\* Other dimensions can be delivered at request.

We produce customized finished polyamide 6.6 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

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