TRANSPARENT PLASTICS / TRANSPARANTE KUNSTSTOFFEN

# **Ridder flex**<sup>®</sup>

## **POLYCARBONATE / LEXAN®**



.

Good heat deflection temperature

Sensitive to stress cracking

Good weldable and bondable

### **MAIN FEATURES**

- High toughness •
- Electrically insulating •
- Easy to polish

COLOUR Transparent

### **PROPERTIES**

	Typical value	Units	Test method
DENSITY	1.19	g/cm <sup>3</sup>	
WATER ABSORPTION	0.03/0.06	%	DIN EN ISO 62
FLAMMABILITY (UL94)	HB		DIN IEC 60695-11-10

### **MECHANICAL PROPERTIES**

	Typical value	Units	Test method
MODULUS OF ELASTICITY (TENSILE TEST)	2200	Мра	DIN EN ISO 527-2
TENSILE STRENGTH	69	Мра	DIN EN ISO 527-2
TENSILE STRENGTH AT YIELD	69	Мра	DIN EN ISO 527-2
ELONGATION AT YIELD	6	%	DIN EN ISO 527-2
ELONGATION AT BREAK	90	%	DIN EN ISO 527-2
FLEXURAL STRENGTH	97	MPa	DIN EN ISO 178
MODULUS OF ELASTICITY (FLEXURAL TEST)	2300	Мра	DIN EN ISO 178
COMPRESSION STRENGTH	16/29	MPa	EN ISO 604
COMPRESSION MODULUS	2000	Мра	EN ISO 604
IMPACT STRENGTH	Not broken	kJ/m²	DIN EN ISO 179-1eU
NOTCHED IMPACT STRENGTH	14	kJ/m²	DIN EN ISO 179-1eA

### **THERMAL PROPERTIES**

	Typical value	Units	Test method
GLASS TRANSITION TEMPERATURE	149	°C	DIN 53765
MELTING TEMPERATURE	N.A.	°C	DIN 53765
SERVICE TEMPERATURE (LONG TERM)	120	°C	
SERVICE TEMPERATURE (SHORT TERM)	140	°C	

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

+31 (0) 180 46 34 71

sales@ridderflex.nl

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### **ELECTRICAL PROPERTIES**

	Typical value	Units	Test method
SPECIFIC SURFACE RESISTANCE	10 <sup>14</sup>	Ω	DIN IEC 60093
SPECIFIC VOLUME RESISTANCE	10 <sup>14</sup>	Ω*cm	DIN IEC 60093

#### **AVAILABLE**

#### SEMI-FINISHED PRODUCTS

SHEETING	2 to 100 mm*
ROD	Ø 3 to Ø 200 mm*
TUBE	At request

\* Other dimensions can be delivered at request.

We produce customized finished polycarbonate products according to your specifications.

This can be based on a drawing or model.

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