TRANSPARENT PLASTICS / TRANSPARANTE KUNSTSTOFFEN

Ridder flex[®]

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 ³	
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

TRANSPARENT PLASTICS / TRANSPARANTE KUNSTSTOFFEN

Ridder flex[®]

POLYCARBONATE / LEXAN®



ELECTRICAL PROPERTIES

	Typical value	Units	Test method
SPECIFIC SURFACE RESISTANCE	10 ¹⁴	Ω	DIN IEC 60093
SPECIFIC VOLUME RESISTANCE	10 ¹⁴	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.

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

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

Ridderflex & Plastics B.V. pays constant care and attention to the composition of the information provided. However, Ridderflex cannot guarantee the completeness, accuracy or ongoing actuality of this information. This information is intended for general information purposes only and does not constitute advice. Ridderflex is not liable for damages resulting from the use of this information, including damage caused by incorrect or incomplete information