



MAIN FEATURES

- High toughness
- Electrically insulating
- Easy to polish
- Good heat deflection temperature
- Sensitive to stress cracking
- Good weldable and bondable

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	Mpa	DIN EN ISO 527-2
TENSILE STRENGTH	69	Mpa	DIN EN ISO 527-2
TENSILE STRENGTH AT YIELD	69	Mpa	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	Mpa	DIN EN ISO 178
COMPRESSION STRENGTH	16/29	MPa	EN ISO 604
COMPRESSION MODULUS	2000	Mpa	EN ISO 604
IMPACT STRENGTH	Not broken	kJ/m ²	DIN EN ISO 179-1eU
NOTCHED IMPACT STRENGTH	14	kJ/m ²	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	



ELECTRICAL PROPERTIES

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

AVAILABLE

SEMI-FINISHED PRODUCTS

SHEETING	2 to 100 mm*
ROD	\varnothing 3 to \varnothing 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