

CRYLON[®] PRISMATIC

GENERAL

Property	Method	Unit	CRYLON [®] PRISMATIC
Density	DIN EN ISO 1183	g/cm ³	1.19
Water absorption_24h/23°C_50x50x4mm ³	DIN EN ISO 62 – Method 1	%	0.2

MECHANICAL

Property* (tested on 3mm, deviating from the product standard DIN EN ISO7823-2)	Method	Unit	CRYLON [®] PRISMATIC
Tensile strength*	DIN EN ISO 527-2	MPa	70
Tensile modulus*	DIN EN ISO 527-2	MPa	3020
Flexural strength*	DIN EN ISO 178	MPa	71
Flexural modulus*	DIN EN ISO 178	MPa	3680
Impact strength Charpy *	DIN EN ISO 179-1	kJ/m ²	9.2

OPTICAL

Property	Method	Unit	CRYLON [®] PRISMATIC
Light transmission (3 mm)	DIN 5036-3 / DIN EN ISO 13468-2	%	> 80
Refractive index	DIN EN ISO 489	n _D ²⁰	1.492

THERMAL

Property	Method	Unit	CRYLON [®] PRISMATIC
Vicat temperature (B 50) (Pre-treatment 16h at 80°C)	DIN EN ISO 306	°C	105
Specific heat capacity	DIN EN ISO 11357-4	J/gK	1.47
Linear thermal expansion	DIN 53752 ISO 11359-2	mm/m x °C	0.07
Thermal conductivity	DIN 52612 DIN EN ISO 22007-1	W/mK	0.18



Service temperature continuous use	°C	70
Max. temperature short term use	°C	90

Note: Technical data of our products are typical ones; the actually measured values are subject to production variations.

