

TECHNICAL DATA SHEET

CRYLON® OPAL WHITE WL 053 LED

GENERAL

Property	Method	Unit	Typical value
Density	ISO 1183	Kg/m ³	1190
Water absorption (method A)	ISO 62-1	%	0.2

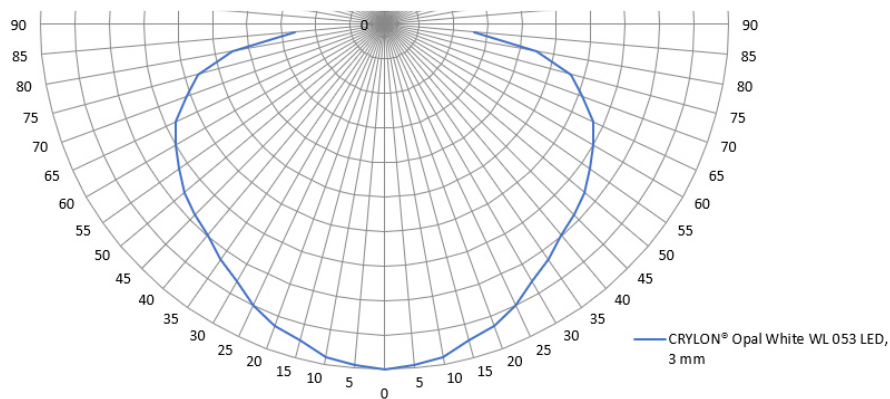
MECHANICAL

Modulus of elasticity	ISO 527-2	MPa	3100
Tensile strength	ISO 527-2	MPa	70
Strain at break	ISO 527-2	%	4
Flexural modulus	ISO 178	MPa	3000
Flexural strength	ISO 178	MPa	110
Charpy Impact, strength unnotched	ISO 179-1	kJ/m ²	15
Charpy Impact, strength notched	ISO 179-1	kJ/m ²	2

OPTICAL

Light transmission (3 mm)	ISO 13468-2	%	53
Refractive index n _D ²⁰	ISO 489	-	1.492
Half-value angle γ (3 mm)	DIN 5036-3	°	78
Diffusion factor σ (3 mm)	DIN 5036-3	%	77

Relative luminance:



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THERMAL			
Property	Method	Unit	Typical value
VICAT Softening temperature, method B50	ISO 306	°C	105
Coefficient of linear thermal expansion	ISO 11359-2	mm/(m*K)	0.07
Max. service temperature continuous use	-	°C	70
Max. service temperature short term use	-	°C	90
Degradation temperature	-	°C	> 280
Specific heat capacity	ISO 11357-4	J/gK	1.47
Thermal conductivity	ISO 22007-1	W/mK	0.18
ELECTRICAL			
Dielectric strength	IEC 60243-1	kV/mm	30
Volume resistivity	IEC 62631-3-1	Ω m	10 ¹³
Surface resistivity	IEC 62631-3-2	Ω	10 ¹⁵
Relative permittivity (1 kHz)	IEC 62631-2-1	-	3.1
Dielectrical dissipation factor (1 kHz)	IEC 62631-2-1	-	0.04

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