

TECHNICAL DATA SHEET

PERSPEX® FROST POLAR WHITE S2 030

GENERAL

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

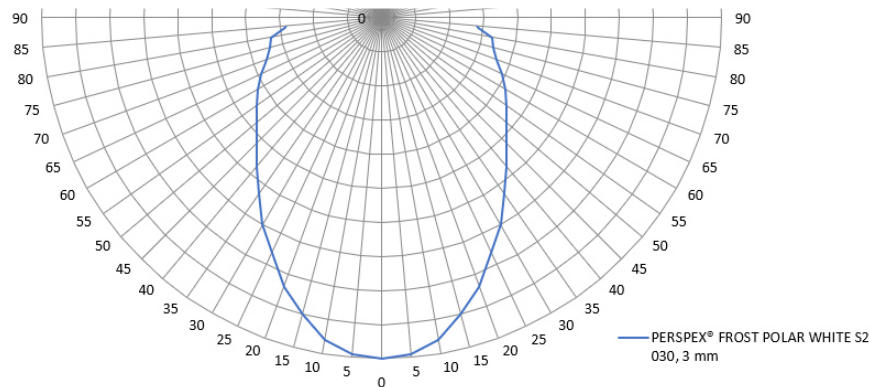
MECHANICAL

Tensile modulus	ISO 527-2	MPa	3400
Tensile strength	ISO 527-2	MPa	75
Strain at break	ISO 527-2	%	4
Flexural modulus	ISO 178	MPa	3200
Flexural strength	ISO 178	MPa	116
Charpy impact strength (unnotched)	ISO 179-1/1eU	kJ/m ²	12

OPTICAL

Light transmission (3 mm)	ISO 13468-2	%	60
Refractive index n_D^{20}	ISO 489	-	1.492
Half-value angle γ (3 mm)	DIN 5036-3	°	48
Diffusion factor σ (3 mm)	DIN 5036-3	%	60

Relative luminance:



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THERMAL

Property	Method	Unit	Typical value
VICAT Softening temperature, method B50	ISO 306	°C	110
Coefficient of linear thermal expansion	ISO 11359-2	mm/(m*K)	0.07
Max. service temperature continuous use	-	°C	80
Max. service temperature short term use	-	°C	90
Degradation temperature	-	°C	> 280

ELECTRICAL

Volume resistivity	IEC 62631-3-1	Ω m	$> 10^{14}$
Surface resistivity	IEC 62631-3-2	Ω	10^{14}

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