

AKRYLON OPAL WHITE COLORED 004

GENERAL

Property	Method	Unit	AKRYLON Opal 004
Density	ISO 1183	g/cm ³	1,19
Water absorption 24h/23°C – 50x50x4mm ³	DIN EN ISO 62 Method 1	%	0,2
Ball indentation hardness	ISO 2039-1	MPa	235
Forming temperature air pressure		°C	140 - 160
Forming temperature vacuum		°C	160 - 190
Moulding shrinkage		%	0,5 – 0,8

MECHANICAL

Property	Method	Unit	AKRYLON Opal 004
Tensile strength	ISO 527-2	MPa	70
Elongation at break	ISO 527-2	%	4
Tensile modulus	ISO 527-2	MPa	3200
Flexural strength	ISO 178	MPa	115
Flexural modulus	ISO 178	MPa	3300
Impact strength Charpy unnotched	ISO 179-1	kJ/m ²	17
Impact strength Charpy notched	ISO 179-1	kJ/m ²	2

OPTICAL

Property	Method	Unit	AKRYLON Opal 004
Light transmission	EN ISO 13468-2	%	4 (3mm)
Refractive index	ISO 489	n _D ²⁰	1,492

THERMAL

Property	Method	Unit	AKRYLON Opal 004
Vicat temperature (B 50) *	ISO 306	°C	105
Specific heat capacity	ISO 11357- 4	J/gK	1,47
Linear thermal expansion	DIN 53752	K ⁻¹ *x10 ⁻⁵	7
Thermal conductivity	DIN 52612	W/mK	0,18
Service temperature continuous use		°C	70
Max. temperature short term use		°C	90
Degradation temperature		°C	> 280

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ELECTRICAL

Property	Method	Unit	AKRYLON Opal 004
Surface resistivity	IEC 60093	Ω	$3 \times 10^{15} - 3 \times 10^{16}$
Volume resistivity	IEC 60093	$\Omega \times m$	$1 \times 10^{13} - 5 \times 10^{13}$
Electrical strength	IEC 60243-1	kV/mm	10
Dielectric strength	IEC 60243-1	kV/mm	30
Dielectric dissipation factor 50 Hz	DIN 53483-2		0,06
Dielectric dissipation factor 1 KHz	DIN 53483-2		0,04
Dielectric dissipation factor 1 MHz	DIN 53483-2		0,02
Relative permittivity 50 Hz	DIN 53483-2		2,7
Relative permittivity 1 KHz	DIN 53483-2		3,1
Relative permittivity 1MHz	DIN 53483-2		2,7

*Pre-treatment 16h at 80°C

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

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