




CRYLON SOFT TONE CLEAR


GENERAL			
Property	Method	Unit	CRYLON[®] Soft Tone
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
Forming temperature air pressure		°C	140 - 160
Forming temperature vacuum		°C	160 - 190
Moulding shrinkage		%	0.5 – 0.8
MECHANICAL			
Tensile strength	DIN EN ISO 527-2	MPa	70
Elongation at break	DIN EN ISO 527-2	MPa	4
Tensile modulus	DIN EN ISO 527-2	MPa	3100
Flexural strength	DIN EN ISO 178	MPa	110
Flexural modulus	DIN EN ISO 178	MPa	3000
Impact strength Charpy unnotched	DIN EN ISO 179-1	kJ/m ²	15
Impact strength Charpy notched	DIN EN ISO 179-1	kJ/m ²	2
OPTICAL			
Light transmission (3 mm)	DIN 5036-3 / DIN EN ISO 13468-2	%	88
Refractive index	DIN EN ISO 489	n _D ²⁰	1.492
Gloss value	DIN 67530		>35

ADVIPLAST SPA

Via Ercolano, 11
 20900 Monza (MB)
 P.I. 13373380156

+39 039 95 3171 
 info.advi@advi-group.com 
 www.advi-group.com 

THERMAL			
Property	Method	Unit	CRYLON [®] Soft Tone OPAL WHITE 047
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	0.19
Service temperature continuous use		°C	70
Max. temperature short term use		°C	90
Degradation temperature		°C	> 280
ELECTRICAL			
Surface resistivity	IEC 60093 DIN EN 62631-1-3-2	Ω	3x10 ¹⁵ - 3x10 ¹⁶
Volume resistivity	IEC 60093 DIN EN 62631-1-3-1	Ω x m	1x10 ¹³ - 5x10 ¹³
Electrical strength	IEC 60243-1 DIN EN 60243-1	kV/mm	10
Dielectric strength	IEC 60243-1 DIN EN 60243-1	kV/mm	30
Dielectric dissipation factor 50 Hz / 1 KHz / 1 MHz	DIN 53483-2		0.06 / 0.04 / 0.02
Relative permittivity 50 Hz / 1 KHz / 1MHz	DIN 53483-2		2.7 / 3.1 / 2.7
Other			
Fire classification	UL94	classification	HB

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

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