

ACRILICO ESTRUSO ANTIURTO AKRYLON – AKRYLON UVT

GENERAL

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

MECHANICAL

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

OPTICAL




Property	Method	Unit	AKRYLON	AKRYLON UVT
Light transmission (3mm klar)	EN ISO 13468-2	%	92	92
Refractive index	EN ISO 489	n _D ²⁰	1,492	1,492
Total solar energy transmission (g – Wert)	EN 410	%	86,5	86,5
Gloss value	DIN 67530		>100	>100

THERMAL

Property	Method	Unit	AKRYLON	AKRYLON UVT
Vicat temperature (B 50) Pre-treatment 16h at 80°C	EN ISO 306	°C	105	105
Specific heat capacity	EN ISO 11357- 4	J/gK	1,47	1,47
Linear thermal expansion	ISO 11359-2	mm/m x °C	0,07	0,07
Thermal conductivity	EN ISO 22007- 1	W/mK	0,18	0,18
Service temperature continuous use		°C	70	70
Max. temperature short term use		°C	90	90
Degradation temperature		°C	< 280	< 280

ADVIPLAST SPA

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

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

ELECTRICAL

Property	Method	Unit	AKRYLON	AKRYLON UVT
Surface resistivity	IEC 60093 EN 62631-1-3-2	Ω	3x10 ¹⁵ - 3x10 ¹⁶	3x10 ¹⁵ - 3x10 ¹⁶
Volume resistivity	IEC 60093 EN 62631-1-3-1	Ω x m	1x10 ¹³ - 5x10 ¹³	1x10 ¹³ - 5x10 ¹³
Electrical strength	IEC 60243-1 EN 60243-1	kV/mm	10	10
Dielectric strength	IEC 60243-1 EN 60243-1	kV/mm	30	30
Dielectric dissipation factor 50 Hz	DIN 53483-2		0,06	0,06
Dielectric dissipation factor 1 KHz	DIN 53483-2		0,04	0,04
Dielectric dissipation factor 1 MHz	DIN 53483-2		0,02	0,02
Relative permittivity 50 Hz	DIN 53483-2		2,7	2,7
Relative permittivity 1 KHz	DIN 53483-2		3,1	3,1
Relative permittivity 1MHz	DIN 53483-2		2,7	2,7

OTHER

Fire resistance	UL94	Flame class	HB	HB
Biocompatibility	DIN ISO 10993-5	---	No cytotoxic	No cytotoxic
Fire performance	CPD 305/2011 EN 13501-1	classification	E No burning droplets	E No burning droplets
Food contact - GMP	EU Richtlinie 1935/2004 VO 10/2011	---	Conform	Conform

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

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