ACRILICO ESTRUSO ANTIURTO CRYLON® HI

GENERAL					
Property	**Method**	**Unit**	**CRYLON® HI 610**	**CRYLON® HI 620**	**CRYLON® HI 630**
Density	ISO 1183	g/cm7	1.15	1.16	1.17
Water absorption 24h/23°C – 50x50x4 mm7	DIN EN ISO 62 Method 1	%	0.3	0.3	0.25
Ball indentation hardness	ISO 2039-1	MPa	100	135	155
Forming temperature air pressure		°C	130 – 150	130 – 150	130 – 150
Forming temperature vacuum		°C	140 – 170	140 – 170	140 – 170
Moulding shrinkage		%	0.6 – 0.9	0.6 – 0.9	0.6 – 0.9
MECHANICAL					
Property	**Method**	**Unit**	**CRYLON® HI 610**	**CRYLON® HI 620**	**CRYLON® HI 630**
Tensile strength	ISO 527-2	MPa	40	50	55
Elongation at break	ISO 527-2	%	35	25	15
Tensile modulus	ISO 527-2	MPa	1700	2200	2400
Flexural strength	ISO 178	MPa	60	80	90
Flexural modulus	ISO 178	MPa	1700	2200	2400
Impact strength Charpy unnotched	ISO 179-1	kJ/m²	65	45	35
Impact strength Charpy notched	ISO 179-1	kJ/m²	5	4	3
OPTICAL					
Property	**Method**	**Unit**	**CRYLON® HI 610**	**CRYLON® HI 620**	**CRYLON® HI 630**
Light transmission (3 mm clear transparent)	DIN 5036-3 / EN ISO 13468-2	%	90	90	91
Refractive index	ISO 489	nD 20	1.492	1.492	1.492
Total solar energy transmission (g-value)	DIN EN 410	%	-	-	-
Gloss value	DIN 67530		-	-	-
THERMAL					
Property	**Method**	**Unit**	**CRYLON® HI 610**	**CRYLON® HI 620**	**CRYLON® HI 630**
Vicat temperature (B 50) *	ISO 306	°C	98	102	104
Specific heat capacity	ISO 11357-4	J/gK	1.5	1.5	1.5
Linear thermal expansion α	DIN 53752	mm/m °C	0.11	0.10	0.09
Thermal conductivity	DIN 52612	W/mK	0.18	0.18	0.18
Service temperature continuous use		°C	65	65	65
Max. temperature short term use		°C	75	80	85
Degradation temperature		°C	>280	>280	>280

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ELECTRICAL					
Property	**Method**	**Unit**	**CRYLON® HI 610**	**CRYLON® HI 620**	**CRYLON® HI 630**
Surface resistivity	IEC 60093	Ω	-	-	-
Volume resistivity	IEC 60093	Ω x m	-	-	-
Electrical strength	IEC 60243-1	kV/mm	-	-	-
Dielectric strength	IEC 60243-1	kV/mm	30	30	30
Dielectrical dissipation factor 50 Hz	DIN 53483-2		-	-	-
Dielectrical dissipation factor 1 KHz	DIN 53483-2		-	-	-
Dielectrical dissipation factor 1 MHz	DIN 53483-2		0.03	0.03	0.03
Relative permittivity 50 Hz	DIN 53483-2		-	-	-
Relative permittivity 1 KHz	DIN 53483-2		-	-	-
Relative permittivity 1 MHz	DIN 53483-2		2.9	2.9	2.9

OTHERS					
Property	**Method**	**Unit**	**CRYLON® HI 610**	**CRYLON® HI 620**	**CRYLON® HI 630**
Fire resistance	UL94		HB	HB	HB
Fire performance	CPD 305/2011 DIN EN 13501-1		-	-	-
Contact with foodstuff – GHP	EU directive 1935/2004 VO 10/2011		Conform	Conform	Conform
Biocompatibility	DIN ISO 10993-5		Not cytotoxic	Not cytotoxic	Not cytotoxic

Note: These technical data of our products are typical ones for CRYLON®. The actually measured values are subject to production variations.

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