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EX- CEL POLYCARBONATE COMPACT SHEET

TECHNICAL VALUES

	PROPERTY	UNIT	TEST METHOD	VALUE
A]	PHYSICAL			
	DENSITY	g/cc	ISO 1183	1.18 - 1.22
	REFRACTIVE INDEX	--	ISO 489	1.586
	WATER ABSORPTION, 24 HRS.	%	ISO 62	0.10
	SATURATION	%	ISO 62	0.35
B]	OPTICAL			
	LIGHT TRANSMISSION			
	CLEAR	%	ASTM D 1003	≥ 80
	BRONZE	%	"	50 ± 3
	BLUE , GREEN	%	"	35 ± 3
	OPAL	%	"	30 ± 3
	GREY HAZE (ONLY FOR CLEAR SHEETS)	%	ASTM D 1003	50 ± 3 ≤ 2
C]	MECHANICAL			
	TENSILE STRENGTH AT YIELD	MPa	ISO 527	≥ 60
	ELONGATION AT YIELD	%	ISO 527	6
	ELONGATION AT BREAK	%	ISO 527	≥ 80
	DART IMPACT 'A' 0.8MM	J	JAINS	≥ 15
	DART IMPACT 'A' 1.0MM	J	JAINS	≥ 20
	DART IMPACT 'A' 1.3 to 1.5MM	J	JAINS	≥ 25
	DART IMPACT 'A' 1.6 to 1.9MM	J	JAINS	≥ 30
	DART IMPACT 'A' 2mm and above	J	JAINS	≥ 200
	CHARPY UNNOTCHED	KJ / M ²	ISO 179	No Break
	CHARPY NOTCHED	KJ / M ²	ISO 179	35
	IZOD UNNOTCHED	KJ / M ²	ISO 180	No Break
	IZOD NOTCHED (23 ⁰ C)	KJ / M ²	ISO 180	65
	IZOD NOTCHED (- 30 ⁰ C)	KJ / M ²	ISO 180	10
D]	THERMAL			
	VICAT SOFTENING TEMPERATURE (B/120)	°C	ISO 306	≥ 145
	HEAT DEFLECTION TEMPERATURE (1.8 Mpa)	°C	ISO 75	≥ 135
	COEFF. OF LINEAR THERMAL EXPANSION	mm/m °C	DIN53752	0.065
	THERMAL CONDUCTIVITY	W/m °C	DIN 52612	0.2
	E]	ELECTRICAL		
DIELECTRIC STRENGTH		kV/mm	IEC 60243	35
VOLUME RESISTIVITY	Ohm-cm	IEC 60093	> 1 X 10 ¹⁷	

F]	FIRE RATING			
	LIMITING OXYGEN INDEX	%	ISO 4589	25
	RATING – 4 mm CLEAR	--	BS 476 :Part 7 – 1987	CLASS 1Y
	RATING – 3 mm	--	UL 94	V 2
	- 6 mm	--	UL 94	V 1
	- 9.5 mm	--	UL 94	V 0

G]	DIMENSIONAL TOLERANCES			
	THICKNESS	Up to 3 mm	%	± 10
		Above 3 mm	%	± 5
	LENGTH	Up to 3050 mm	mm	- 0, + 10
		3051 to 5000 mm	mm	- 0, + 25
		Above 5000 mm	mm	- 0, + 40
	WIDTH		mm	-0, + 5
	DEVIATION BETWEEN DIAGONALS			
		Up to 1250 mm width	mm	≤ 8
		1251 to 2050 mm width	mm	≤ 15
	WARPAGE			
	(On a sample of 500mm length and full width)			
	EXTRUSION DIRECTION (LENGTH)	mm	JAINS	≤ 10
	WEB DIRECTION (WIDTH)	mm	JAINS	≤ 50

H]	WEATHERABILITY (AS PER REQUEST)		
	STANDARD SHEET		UV ENRICHED
	WEATHER PROTECTED, (ONE SIDE OR BOTH SIDE)		40 µm CO-EXTRUDED UV LAYER

I] **MASKING** ADHESIVE OPAL PE FILM ON BOTH SIDES WITH EXCEL RUNNING TAPE.

AVAILABILITY

1. COLOR : CLEAR, BRONZE, OPAL, GREY ,BLUE, GREEN
 2. OBSCURED PATTERNS : CRACKED ICE/ LEATHER GRAIN & PRISMATIC
 3. THICKNESS : 0.8mm TO 10 mm, (12.7mm up to 1250mm width)
 4. STD WIDTHS (mm) : 1220, 1250, 2050
 5. STD LENGTHS (mm) : 2440, 2500, 3050
- SPECIAL LENGTHS, WIDTHS, COLOUR & LIGHT TRANSMISSION AS PER CUSTOMER'S REQUEST.

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