

PHYSICAL PROPERTIES (POLYCARBONATE)

	TYPICAL PROPERTIES	VALUE	UNITS	TEST METHOD	
				ASTM/UL	ISO/IEC
GENERAL	Specific Density	1200	Kg/M ³	D-792	1183/A
	Flammability –94 V-2 Flame class rating	1.48	mm	UL 94	
	Oxygen Index	28	%	D-2863	4589
	Water Absorption	0.35	%	D-570	62/1
MECHANICAL	Tensile Stress at yield	60	MPa	D-638	527
	Tensile Stress at break	72	MPa	D-638	527
	Tensile Strain at yield	6.0	%	D-638	527
	Tensile Strain at break	125	%	D-638	527
	Tensile Modulus	2400	MPa	D-638	527
	Flexural Strength at yield	100	MPa	D-790	178
	Taber Abrasion – (1 Kg Load)	10	mg/1000 Cycles	D-1044	
	Charpy Impact Notched (23°C)	40	Kg/M ²	D-256	179/2C
	Izod Impact Notched (23°C)	65	Kg/M ²	D-256A	180/1A
	Impact Resistance (Falling Weight)	62	Joules	F-736	
THERMAL	Vicat Softening Point	148	°C	D-1525	306
	Heat Deflection Temperature	132	°C	D-648	75
	Thermal Index – Electrical Properties	100	°C	UL746B	
	Thermal Index – Mechanical Properties	120	°C	UL746B	
	Coefficient of linear thermal expansion	65x10 ⁻⁶	m/m°C	D-696	
	Shrinkage	3.0	%	BSEN ISO	11963
ELECTRICAL	Volume Resistivity	>10 ¹⁶	ohm.Cm	D-257	IEC 93
	Dielectric strength	30	KV/mm	D-149	IEC 243
	Dissipation Factor (1MHz)	0.01		D-150	IEC 250
OPTICAL	Light transmission (1 mm thickness)	89	%	D-1003	13468
	Haze	1.0	%	D-1003	
	Refractive Index, n _D ²⁰	1.59		D-542	489

ROWAD (PC) SHEETS STANDARD SUPPLY.

Thickness : 1.00 mm up to 13.00 mm
Size : 2.05 X 3.00 m & 1.22 X 2.44 m & 1.00 X 2.00 m
Surface : Plain and Textured
Colours : Glass clear, Blue, Green and Bronze

- All sheets are extruded with UV layer 50 micron on both sides.
- All sheets are laminated with paper or plastic film on top and bottom.
- Any other colour or thickness or sheet size can be supplied on customers request.