



**CUT TO SIZE
plastics**

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TECHNICAL DATA SHEET POLYCARBONATE

Physical Properties	Test Method	Unit	Typical Value
SPECIFIC GRAVITY	ASTM D 792	-	1.2
WATER ABSORPTION (24 HRS 73F/23°C)	ASTM D 570	%	0.15
REFRACTIVE INDEX	ASTM D 542A	-	1.59
LIGHT TRANSMISSION (0.125"/3.2MM THICKNESS CLEAR)	ASTM D 1003	%	>86
(0.125"/3.2MM THICKNESS HAZE)	ASTM D 1003	%	<1
YELLOW INDEX (3 YRS U.V. COATED SHEET)	ASTM D 1925	-	>2.0
ROCKWELL HARDNESS	ASTM D 785	-	R 115
Mechanical Properties			
TENSILE STRENGTH (ULTIMATE)	ASTM D 638	psi(Kgf/cm ²)	9,500(670)
ELONGATION (ULTIMATE)	ASTM D 638	%	100
FLEXURAL STRENGTH	ASTM D 790	psi(Kgf/cm ²)	14,000(985)
FLEXURAL MODULUS	ASTM D 790	psi(Kgf/cm ²)	332,000(23,350)
IZOD IMPACT STRENGTH (0.12"/3.2mm thickness, notched)	ASTM D 256A	ft-lbs/in(Kgfc/cm)	16(90)
Thermal Properties			
HEAT DEFLECTION TEMPERATURE - 264psi (18.5kg/cm ²)	ASTM D 648	°F(°C)	270(132)
- 66psi (4.6kg/cm ²)			280(138)
COEFFICIENT OF THERMAL EXPANSION	ASTM D 696	in/in/°F(cm/cm/°C)	3.75X10- 5(6X10-5)
BRITTLE TEMPERATURE	ASTM D 746	°F(°C)	-211(-100)
Flammability			
IGNITION TEMPERATURE - FLASH	ASTM D 1925	°F(°C)	873(467)
- SELF			1,076(580)
Electrical Properties			
VOLUME RESISTIVITY	ASTM D 257	Ohm-cm	1.OE17
DIELECTRIC CONSTANT(60Hz)	ASTM D 150	-	3.17

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For the most recent technical data and free application advice, please call Cut To Size Plastics on: (02) 9681 0400.