



## A&C Plastics ACRYLIC SHEETS

### PHYSICAL PROPERTIES

PROPERTY		TEST METHOD		VALUES	UNIT
<b>MECHANICAL</b>	Specific Gravity	D 792	ASTM	1.19	-
	Tensile Strength	D 638	ASTM	75	MPa
	Elongation, Rupture	D 638	ASTM	4.5	%
	Modulus of Elasticity	D 638	ASTM	3,150	MPa
	Flexural Strength	D 790	ASTM	115	MPa
	Modulus of Elasticity	D 790	ASTM	3200	MPa
	Izod Impact Strength - Notch	D 256	ASTM	0.3	J/cm
	Rockwell Hardness	D 785	ASTM	96	M-scale
<b>THERMAL</b>	Specific Heat	-	-	1470	J/Kg.K
	Vicat Softening Point	D 1525	ASTM	115	°C
	Forming Temperature	-	-	170 - 190	°C
	Deflection Temperature under load, 264 Psi	D 648	ASTM	100	°C
	Coefficient of Thermal Linear Expansion	D 696	ASTM	7.5 x 10 <sup>5</sup>	K <sup>-1</sup>
	Conductivity	C 177	-	0.19	W/m.K
	Max. Recommended Continuous Service Temperature	-	-	80	°C
	<b>FLAMMABILITY</b>	Horizontal Burn Rate	D 635	ASTM	1.1
Self-Ignition Temperature		D 1929	ASTM	480	°C
Flammability Classification		UL 94	-	HB	-
<b>ELECTRICAL</b>	Dielectric Strength	D 149	ASTM	18	KV/mm
	Dissipation Factor - 60 Hz	D 150	ASTM	0.06	-
	Dissipation Factor - 1000 Hz	D 150	ASTM	0.04	-
	Volume Resistivity	D 257	ASTM	> 10 <sup>14</sup>	Ωm <sup>-2</sup>
	Surface Resistivity	D 257	ASTM	> 10 <sup>14</sup>	Ωm <sup>-2</sup>
<b>OPTICAL</b>	Refractive Index	D 542	ASTM	1.49	-
	Light Transmission	D 1003	ASTM	> 92	%
	Haze	D 1003	ASTM	< 1	%