



COMMERCIAL GRADE CELL CAST ACRYLIC

TYPICAL PHYSICAL PROPERTIES

	Units	Value: 3mm	Test Method
Specific Gravity	-	1.19	D 792
Water Absorbtion	(%)	0.3 – 0.4	D 570

MECHANICAL

Impact Strength, Izod	kgf . cm/cm	2.2	D 256-
Charpy Impact Strength	kgf . cm/cm ²	3.0	D 256
Tensile Strength	kgf/cm ²	780	D 638
Tensile Modulus	kgf/cm ²	3.3 x 10 ⁴	D 638
Flexural Strength	kgf/cm ²	1200	D 790
Flexural Modulus	kgf/cm ²	3.3 x 10 ⁴	D 790
Rockwell Hardness	-	M-100	D 785

THERMAL

Thermal Conductivity	cal/cm . sec . °C	5 x 10 ⁻⁴	-
Coefficient of linear expansion	cm/cm . °C	7 – 8 x 10 ⁻⁵	D 696
Heat Distortion Temperature	°C	100	D 648
Vicat Softening Point	°C	118	D 1525

ELECTRICAL

Dielectric Strength	kV/mm	18	D 149
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OPTICAL PROPERTIES

Light Transmission Clear Sheet (000)	%	93	-
Light Transmission Sign Grade Opal Sheet (445)	%	50	-
Light Transmission Skylight Grade Opal Sheet (010)	%	70	-

This information is intended as a guideline for designers and processors of thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

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