



MULFORD
PLASTICS
delivering solutions

IMPACT MODIFIED ACRYLIC

Acrytuff® High Impact Acrylic Sheet

Acrytuff is a continuously processed impact modified acrylic sheet that offers superior impact strength. Ideal applications include signage, displays, skylights, windows, doors and any indoor/outdoor application where durability is needed.

40% impact modified acrylic is:

- 5 to 6 times stronger than general-purpose acrylic.
- 10 to 15 times stronger than double strength window glass.
- 20 to 30 times stronger than polished wire glass or other glasses.

100% impact modified acrylic is:

- 10 times stronger than general-purpose acrylic.
- Approximately 20 to 30 times stronger than double strength window glass.
- Approximately 40 to 50 times stronger than polished

Key Features

- Economical alternative to polycarbonate
- Excellent weatherability
- Excellent thermoformability properties
- Light weight
- Custom blends available
- Wide range of colours
- Available in sheet or roll

Product Applications

- Signage
- Skylights
- Automotive Accessories
- Display Units
- Glazing
- Lighting Fixtures

IMPACT MODIFIED ACRYLIC

TECHNICAL DATA SHEET

PROPERTY	ASTM	UNIT	30%	50%	70%	100%
OPTICAL						
Light Transmission	D-1003	%	92	92	90	90
Percent Haze	D-1003	%	2	2	< 3	< 3
Refractive Index	D-542		1.49	1.49	1.49	1.49
MECHANICAL						
Izod Impact Strength	D-256	kgf-cm/cm	3.27	3.8	4.9	5.98
Tensile Modulus of Elasticity	D-638	kgf/cm ²	26 435	23 904	21 373	17 576
Tensile Strength @ Yield	D-638	kgf/cm ²	632	562	499	393
Flexural Strength @ Yield	D-790	kgf/cm ²	962	843	745	583
Rockwell Hardness Method A	D-785	M - Scale	78	68	59	46
Falling Drop Dart		kg-cm	18.4	30	48.3	67.9
THERMAL						
Deflection Temp. (18.6 kgf/cm ²)	D-648	°C	92.2	90.0	87.8	85.0
Self Ignition Temperature	D-1929	°C	>454	>454	>454	>454
Burning Rate	D-635	cm/min	2.16	3.18	3.89	5.00
Smoke Density Rating	D-2843	%	5.2	8.5	11.5	16.5
Shrinkage from Mold	D-955	%	0.3 - 0.6	0.3 - 0.6	0.3 - 0.6	0.3 - 0.6
Glass Transition Temperature	D-348	°C		90 - 95		
Longitudinal Orientation		%	< 5%	< 5%	< 5%	< 5%
Continuous Service Temperature		°C	71 - 82	71 - 82	71 - 82	71 - 82
PROCESSING						
Density - Specific Gravity	D-792		1.18	1.17	1.16	1.15
Moisture - Water Absorption	D-570	% wt. Gain	0.3	0.3	0.3	0.3
TOLERANCES						
Sheet Length ≤ 1.5m		mm	+/- 2.4mm	+/- 2.4mm	+/- 2.4mm	+/- 2.4mm
Sheet Length > 1.5m		mm	+/- 3.2mm	+/- 3.2mm	+/- 3.2mm	+/- 3.2mm

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Mulford International nor any of their suppliers assume any liability for use of information presented.

☎ **AUST** 1300 MULFORD (1300 6853673) **NZ** 0800 MULFORD (0800 6853673)

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