



Impact modified acrylic offers 7 to 10 times the impact resistance of standard acrylics and have excellent optical properties. They offer excellent optical clarity, unsurpassed weatherability and design flexibility. Assemblies can be drilled, machined, engraved, silk screened, hot stamped, vacuum-metallized or chrome plated.

Impact modified acrylics are virtually unaffected by alkalis, hydrocarbons, non-oxidizing acids, saltwater, photographic or battery chemicals. You can choose from transparent, translucent, opaque or custom colors.

APPLICATIONS

- Nameplates
- Decals
- Instrument Panel Overlays
- Back-lit Displays
- Graphic Panels
- Thermoformed Parts
- Die-cut parts
- Automotive and Computer Components

Surfaces
GG = Gloss / Gloss
MG = Matte / Gloss
VG = Velvet / Gloss
VM = Velvet / Matte
VF = Velvet / Fine Matte
SM = Suede / Matte
SG = Suede / Gloss

Gauges
.005"
.007"
.010"
.015"
.020"
.030"

Cut sheets are available in standard 24" x 48" trimmed sheets or in custom cut "trimmed and squared" sheets. Also available in slit rolls. GG protective masking is available in both stick and cling adhesion masking films.



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AVERAGE PROPERTIES OF SOLATUF™ IMPACT MODIFIED ACRYLICS

PROPERTY*	ASTM TEST METHOD	UNITS	TYPICAL VALUES
PHYSICAL Specific Gravity Rockwell Hardness Coefficient of Linear Expansion	D-792 D-785 D-696	--- (M Scale) IN/IN/°F	1.15 40 4.0 x 10 ⁰⁵
OPTICAL Light Transmission Haze Refractive Index N _D	D-1003 D-542	Total white % & ---	91.5 1 1.49
MECHANICAL Tensile: Tensile Strength Tensile Modulus Tensile Elongation @ Yield Tensile Elongation @ Break Flexural: Flexural Strength Flexural Modulus Impact Strength, IZOD Milled Notch	D-638 D-638 D-638 D-638 D-790 D-790 D-256	psi psi % % psi psi ft lb/in of notch	6,800 260,000 5.3 50 10,500 250,000 1.10
THERMAL Deflection Temperature Under Load, Annealed at 3.6°F/min, 264 psi Vicat Softening Point Unannealed 122°F/hr, 2.2 lb Unannealed 122°F/hr, 11.0 lb Glass Transition Temperature T _g Continuous Service Temperature Range Water Absorption, 24 hours	D-648 D-1525 D-1525 D-3418 D-570	°F °F °F °F °F %	194 228 185 216 160-180 0.3

**Properties listed are for Plexiglass DR*

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Please Note: Properties reported here are typical of average lots. Rowland Technologies, Inc. makes no representation that the material in any particular shipment will conform exactly to the value given herein nor is Rowland Technologies responsible for the performance of this material for a given application. The user of the material should perform their own testing to determine the suitability of the material for the intended use. Applications depicted herein are not specifications. They are provided as information only.