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Acrylic

DESCRIPTION:

Acrylic provides a good balance of strength, weatherability, and clarity. Available as a clear compound, that can be tinted, frosted or diffused to specification.

| PROPERTY | TYPICAL VALUE | UNITS | ASTM METHOD |
|---|----------------------|----------|--------------------|
| PHYSICAL | | | |
| Rockwell Hardness | 91 | M scale | D-785 |
| Specific Gravity | 1.19 | | D-792 |
| Melt Flow Rate (230°C, 3.8 kg) | 2.3 | g/10 min | D-1238 |
| MECHANICAL | | | |
| Flexural Modulus | 450,000 | psi | D-790 |
| Flexural Strength | 15,000 | psi | D-790 |
| Tensile Strength | 10,200 | psi | D-638 |
| Tensile Elongation | 6 | % | D-638 |
| Notched Izod Impact @ 23°C | 0.3 | ft-lb/in | D-256 |
| THERMAL | | | |
| Heat Deflection Temp 0.125 in @ 264 psi (annealed) | 199 | ° F | D-648 |
| Coefficient of Linear Thermal Expansion | 3.6×10^{-5} | in/in/°F | D-696 (-22 to 73F) |
| FLAMMABILITY | | | |
| Flame Rating | HB | .059" | UL94 |
| Outdoor Suitability | f1 | | UL746C |
| OPTICAL | | | |
| Refractive Index (ND @ 73F) | 1.49 | | D-542 |
| Transmittance (.125" / 3.2mm) | 92 | % | D-1003 |
| Haze (.125" / 3.2mm) | < 2 | % | D-1003 |

The information provided above is based on typical values, and is believed to be reliable. No warranty is given as to the suitability of the product for a particular application. Determination of the suitability of this product for any use is solely the responsibility of the user.