

TUFFAK VR Polycarbonate



Flexible Enclosure

TUFFAK VR sheet is a polycarbonate product designed for high optical quality and exceptional durability. Proprietary UV technology ensures long lasting outdoor weathering performance while protecting occupants from the sun's harmful UV rays. State-of-the-art manufacturing processes provide low optical distortion for clear views and unparalleled sight lines.

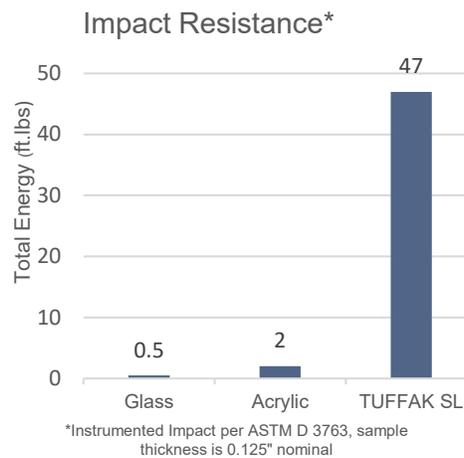
TUFFAK VR can be easily cut and sewn, offering a high clarity, wrinkle free alternative to flexible vinyl. The product can be rolled, making it ideal for applications with limited storage. TUFFAK VR maintains its impact strength in extreme temperatures to -30°F.

Applications

Marine flexible enclosures, tent and awning enclosures

Typical Properties

| Property | Test Method | Units | Values |
|--|-------------|-----------|-------------------------|
| PHYSICAL | | | |
| Specific gravity | ASTM D 792 | - | 1.2 |
| Light transmission, Clear @ 0.040" | ASTM D 1003 | % | 90 |
| MECHANICAL | | | |
| Izod impact strength, notched @ 0.125" | ASTM D 256 | ft-lbs/in | 18 |
| Izod impact strength, unnotched @ 0.125" | ASTM D 256 | ft-lbs/in | 60 (No break) |
| Instrumented impact @ 0.125" | ASTM D 3763 | ft-lbs | 47 |
| Instrumented impact @ 0.125", @ -30°F | ASTM D 3763 | ft-lbs | 50 |
| Poisson's ratio | ASTM E 132 | - | 0.38 |
| Rockwell hardness | ASTM D 785 | - | M70 / R118 |
| THERMAL | | | |
| Coefficient of thermal expansion | ASTM D 696 | in/in/°F | 3.75 x 10 ⁻⁵ |
| Heat deflection temperature @ 264 psi | ASTM D 648 | °F | 270 |
| Heat deflection temperature @ 66 psi | ASTM D 648 | °F | 280 |



These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.