

# 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.

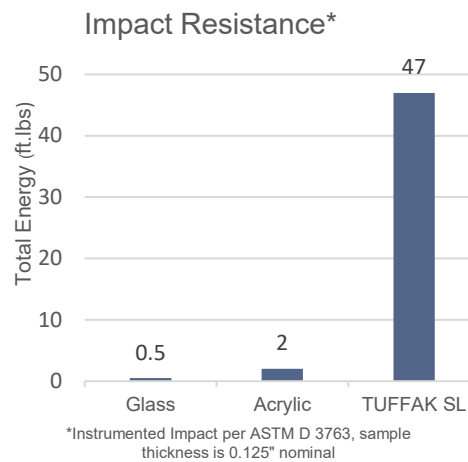
TUFFAK VR can be easily cut and sewn, offering a high clarity, wrinkle free alternative to flexible vinyl. The product can be rolled, making it ideal for applications with limited storage. TUFFAK VR maintains its impact strength in extreme temperatures to -30°F.

## Applications

Marine flexible enclosures, tent and awning enclosures

## Typical Properties

Property	Test Method	Units	Values
<b>PHYSICAL</b>			
Specific gravity	ASTM D 792	-	1.2
Light transmission, Clear @ 0.040"	ASTM D 1003	%	90
<b>MECHANICAL</b>			
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
<b>THERMAL</b>			
Coefficient of thermal expansion	ASTM D 696	in/in/°F	3.75 x 10 <sup>-5</sup>
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.