



Prime Super Tuff-X 500 is an engineered alloy that offers very high stiffness when rigidity is important. Prime Super Tuff-X 500 has a very low C.L.T.E., excellent cold temperature impact, UV protection, improved rigidity and is highly chemical resistant.

Prime Super Tuff-X 500

Prime Super Tuff-X 500	Very High	High
Impact Strength	*	
Low Temperature Impact Strength	*	
Tensile Strength		*
Flexural Modulus	*	
Heat Deflection Temperature		*

Property	Test Method	Value	Unit
Specific Gravity	D 792	1.14	g/cc
Melt Flow	D 1238	0.5	g/10min
Flex Modulus	D 790	425,000	psi
Tensile @ Yield	D 638	3,770	psi
Notched Izod @ 73 °F	D 256	14.0	Ft-lb/in
Notched Izod @ -22 °F	D 256	0.90	Ft-lb/in
Multiaxial Impact @ -22 °F	D 3763	386	in-lbs
HDT @ 66 psi, unannealed	D 648	237	°F
CLTE	D696 Modified	2.2x10 ⁻⁵	in/in/°F

Complies with UL 94 HB at thickness >1.5 mm

Applications:

Ideal for : marine, automotive, power tools, electronics, lawn and garden and RV applications.

Finishing:

Super Tuff-X 500 can be fabricated by using many techniques such as; drilling, routing, punching, sawing, laser or die cut. Mechanical screws and other types of fasteners may be used to join Super Tuff-X 500 parts together. It may also be bonded with certain types of adhesives.

Processing:

Prime Super Tuff-X 500 is a semi-crystalline material that behaves differently in the thermoforming process when compared to an amorphous material. Ideal forming conditions; Mold temp. 170-190°F, Sheet temp. 320-360°F, part removal temp. 145-170°F. Aluminum temperature controlled grit blasted tools are preferred. Ceramic tools can also work well if they are glass bead blasted. Quartz or ceramic heaters are preferred when working with Super Tuff-X 500. Calrod heaters can sometimes be used but gas fired is not recommended.

Colors, Textures and Capabilities:

Our Super Tuff-X 500 material will accept any color. This product can also be painted with a two-part paint system. Super Tuff-X 500 is offered in gauges from .090 to .400 in. and in widths up to 120". Super Tuff-X 500 is offered in several different patterns that include; FL/HC, H/C, Diamond Plate, Smooth and Levant II.