



Prime Tuff-X

Prime Tuff-X:

Is an engineered alloy that fills the gap between engineered plastics and high performance Polyolefins. Prime Tuff-X has a very low C.L.T.E., excellent impact, UV protection and is highly chemical resistant.

Applications:

Ideal for ; automotive, power tools, irrigation, electronics, lawn and garden and RV applications.

Processing:

Prime Tuff-X 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 it is glass bead blasted. Quartz or ceramic heaters are preferred when working with Tuff-X. Calrod heaters can sometimes be used but gas fired is not recommended. Mold Shrink is .007-.009 in/in in the MD, less in the TD.



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



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Finishing:

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

Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.

Property	Test Method	Value	Unit
Specific Gravity	D 792	1.07	
Melt Flow	D 1238	1.1	g/10min
Flex Modulus	D 790	300,000	psi
Tensile @ Yield	D 638	3400	psi
Elongation	D 638	190	%
Gardner Impact @ -30°C	D 5420-96	310	in-lb.
Notched Izod @ 73 °F	D 256	NB	ft-lb/in
HDT @ 66 psi	D 648	221	°F
HDT @ 264 psi	D648	136	°F
CLTE	696 Modified	2.79x10 ⁻⁵	in/in/°F

Complies with UL 94 HB at thickness >1.5 mm

Colors, Textures and Capabilities:

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

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