

Prime TUFF-X™

Our Prime Tuff-X is an engineered alloy that fills the gap between engineered plastics and high-performance Polyolefins.

Offers very low C.L.T.E., excellent impact, UV protection, highly chemical resistant, and is good for thermoforming due to improved melt strength.

Customization

Prime Tuff-X has 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.

Prime Tuff-X can be color matched to meet your specific requirements through our vertical integration with Primex Color, Compounding & Additives.

Sustainability

Prime Tuff-X meets industry sustainability standards and can be recycled as a post-industrial or post-consumer product in many states in the USA or any Primex Plastics facility.

Primex Sustainability: A better tomorrow, starting today!



Prime TUFF-X™ | Data Sheet

Prime Tuff-X is offered in 200, 200 HG, 301, 301 HG, Super Tuff-X, SWR, 500, 500 HG, 500 PG. The physical properties and strengths vary depending on the application. Prime TUFF-X has excellent thermoforming characteristics.

Applications

Prime Tuff-X has very good chemical resistance, and is ideal for; automotive, power tools, irrigation, fluid handling, electronics, marine, ATV, golf carts, lawn and garden, and RV applications .

Finishing

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

Colors, Textures, and Capabilities

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

Property	M	Units	Values TX 200	Values TX 301	Values Super Tuff-X	Values Super TX 500
Specific Gravity	D792		1.12	1.08	1.1	1.14
Melt Flow	D1238	g/10min	.06	0.8	0.8	0.5
Tensile @ Yield	D638	psi	3,555	3,010	3,770	3,770
Flex Modulus	D790	psi	307,000	304,000	325,000	425,000
Multi-Axial Impact @ -22 °F	D3763	in-lb	451		247	386
Notched Izod @ 73 °F	D256	ft-lb/in	15.6	19.4		14
Notched Izod @ -22 °F	D256	ft-lb/in	1.2			0.9
HDT @ 66 psi	D648	°F	213		240	237
HDT @ 264 psi	D648	°F	138		140	
CLTE	D696 Modified	in/in/°F	2.7x10 ⁻⁵		2.6x10 ⁻⁵	2.2x10 ⁻⁵

UL compliant materials available upon request.

Prime TUFF-X	Very High	High	Avg.
Impact Strength	*		
Low Temperature Impact Strength	*		
Tensile Strength		*	
Flexural Modulus		*	
Heat Deflection Temperature		*	