Prime Tuff-X 500

Unspecified

Primex Plastics Corporation

Message:

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.
Applications:
Ideal for : marine, automotive, power tools, electronics, lawn and garden and RV applications.
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.
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.
Please contact your Primex Plastics representative for more information on finishing, fabricating, or the thermoforming process.
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.

General Information	
Features	Good Chemical Resistance
	Good Colorability
	Good UV Resistance
	High Heat Resistance
	High Impact Resistance
	High Stiffness
	High Tensile Strength
	Low Temperature Impact Resistance
	Semi Crystalline
Uses	Automotive Applications
	Electrical/Electronic Applications
	Lawn and Garden Equipment
	Power/Other Tools
	Sporting Goods
Appearance	Colors Available
Forms	Sheet
Processing Method	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	0.50	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.0	MPa	ASTM D638
Flexural Modulus	2930	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C	48	J/m	
23°C	750	J/m	
Instrumented Dart Impact (-30°C)	43.6	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	114	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**		**Test Method**
Flame Rating (> 1.50 mm)	HB		UL 94
Additional Information	**Nominal Value**	**Unit**	
De-mold Temperature	63 to 77	°C	
Mold Temperature (other)	77 to 88	°C	
Sheet Temperature	160 to 182	°C	

Recommended distributors for this material

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