Prime Tuff-X 200

Unspecified

Primex Plastics Corporation

Message:

Prime Tuff-X 200 is an engineered alloy that fills the gap between engineered plastics and high performance Polyolefins. Prime Tuff-X 200 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 200 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.
Finishing:
Tuff-X 200 can be fabricated by using many techniques such as; drilling, routing, punching, sawing, laser or die cut. Mechanical screws and other type of fasteners may be used to join Tuff-X 200 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 Tuff-X 200 material will accept any color imaginable, furthermore, this product can be painted with a two part paint system. Tuff-X 200 is offered in gauges from .090 to .400 in. and in widths up to 120". Tuff-X 200 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 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	1.12	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	0.60	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength (Yield)	24.5	MPa	ASTM D638
Flexural Modulus	2120	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C	64	J/m	
23°C	830	J/m	
Instrumented Dart Impact (-30°C)	5.76	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	101	°C	
1.8 MPa, Unannealed	58.9	°C	
CLTE - Flow	4.9E-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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