PRIMEX PLASTICS CORPORATION

A subsidiary of ICC Industries Inc.

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.

# PRIME TUFF-X 200

| Prime Tuff-X 200 | 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 | 1.12 | g/cc |
| Melt Flow | D 1238 | 0.60 | g/10min |
| Flex Modulus | D 790 | 307,000 | psi |
| Tensile @ Yield | D 638 | 3555 | psi |
| Multiaxial Impact @ -22 ºF | D 3763 | 51 | In-lb |
| Notched Izod @ 73 ºF | D 256 | 15.6 | ft-lb/in |
| Notched Izod @ -22 ºF | D 256 | 1.2 | ft-lb/in |
| HDT @ 66 psi | D 648 | 213 | ºF |
| HDT @ 264 psi | D648 | 138 | ºF |
| CLTE | 696 Modified | $2.70x10^{-5}$ | in/in/ºF |

## Applications:

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

## 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.

## 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. 170-190ºF, Sheet temp. 320-360ºF, part removal temp.145-170ºF. 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.

## 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.

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



*Primex Plastics Corporation*
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***Large enough to handle YOUR requirements, small enough to handle YOUR needs.***