A subsidiary of Primex Plastics Corporation





Prime TUFF-X is a mineral filled copolymer Polypropylene that offers very high stiffness when rigidity is important. Prime TUFF-X has a very low C.L.T.E., excellent cold temperature impact, UV protection, improved rigidity and has high chemical resistance.

Property	Unit		ISO	Value
PHYSICAL Density Shrinkage Melt Flow (230°C/2.16kg)		g/cc % g/10min	1183 1133	1.08 0.6-0.8 0.5
MECHANICAL				
Stress at break	MPa	50mm/min	527	26
Ultimate elongation	%	50mm/min	527	450
Flexural Modulus	MPa		178	3000
Charpy Impact, notched	kj/m2	23°C -20°C	180/A	26 3.5
THERMAL				
HDT@0.45MPa	°C		75	128
CLTE(-30°C to 100°C)	mm/mm/°C		ASTM E831	0.00006
FLAMMABILITY RATING Horizontal burn	1.5mm+		UL94	НВ

Finishing

Aluminium tool construction is recommended with a temperature control function to ensure consistent moulding & finished part dimensional tolerances. A constant tool temperature (typically 75°C for PRIME TUFF-X) should be maintained throughout the production run. Cooling using air or water spray will speed up the cooling cycle to provide efficient production output. Once removed from the tool, it is recommended that the component is clamped in a frame for a short period to optimise dimensional stability & reduce the risk of warping. Shrinkage rates are available on application.

Colour, Textures, Capabilities

PRIME TUFF-X is available in a full range of colours (subject to minimum order quantities) either colour matched to specific colour references, or to customer sample. A range of more standard colours is available for non-specific requirements. PRIME TUFF-X is available with a smooth or with a textured finish. Emboss swatches are available on request.

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