



PRIME SUPER TUFF-X HIGH GLOSS

Prime Super Tuff-X High Gloss offers the same great benefit as our Super Tuff-X but also has a very high gloss before and after forming. Using the Gardner Gloss Meter at 60° angle gloss levels of 85 to 90 have been obtained after forming. Prime Super Tuff-X is an engineered thermoplastic alloy that offers very high stiffness when rigidity is important. Prime Super 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	g/cc	1183	1.14
Shrinkage	%		0.7-0.9
Melt Flow (230°C/2.16kg)	g/10min	1133	0.5
MECHANICAL			
Stress at yield	MPa	50mm/min	527
Ultimate elongation	%	50mm/min	230
Flexural Modulus	MPa		178
Izod Impact, notched	kJ/m ²	23°	180/A
		-30°C	4
60° Gardner Gloss	%	2813	85-95
THERMAL			
HDT @ 0.46MPa	°C	75	114
CLTE(-30°C to 100°C)	mm/mm/°C	ASTM E831	0.000041
FLAMMABILITY RATING			
Horizontal burn	1.5mm+	UL94	HB

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 SUPER 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 SUPER 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 SUPER TUFF-X is available with a smooth or with a textured finish. Emboss swatches are available on request.

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