



PRIME Eco-X

PRIME Eco-X is a High Density Polyethylene thermoplastic sheet made from a sustainable source, specifically Sugarcane. It is designed for automotive, leisure, transportation and general thermoforming applications. PRIME Eco-X has a high impact resistance across a wide temperature range, good ESCR characteristics & excellent chemical resistance.

Property	Unit	ASTM	Value
PHYSICAL			
Density (Natural)	g/cc	D792	.97
Melt Flow (190°C/5kg)	g/10min	D1238	0.7- 0.9
MECHANICAL			
Izod Impact,notched	J/m	D256	175
Tensile strength at Break	MPa	D638	35
Flexular Modulus	MPa	D790	1100
Environmental Stress Cracking Resistance		D790 - b D790 - c	150 1000
THERMAL			
HDT@0.45 MPa (HDT/B)	°C	D648	70
Typical forming temp	°C		140-180

Finishing

Aluminium tool construction is recommended with a temperature control function to ensure consistent moulding & finished part dimensional tolerances. A constant tool temperature (Typically 70-80°C for PRIME Eco-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 Eco-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. For outdoor use, PRIME Eco-X can be stabilised against UV degradation. PRIME Eco-X is available with a smooth or with a textured finish. Emboss swatches are available on request.

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