



# PRIME 3000

*PRIME 3000 is a Polypropylene Copolymer thermoplastic sheet designed for automotive, leisure, transportation & general thermoforming and fabrication applications. PRIME 3000 has a high impact resistance, especially at ambient temperatures & excellent chemical resistance.*



	Property	Unit	ASTM	Value
<b>PHYSICAL</b>				
Density		g/cc	1183	.91
Melt Flow (230°C/2.16kg)		g/10min	118	0.3

<b>MECHANICAL</b>				
Izod Impact, notched	kJ/m <sup>2</sup>	23°C	180/A	58
		-30°C	180/A	7
Strength @ yield	MPa	50mm/min	527/2	28
	%	50mm/min	527/2	12
Tensile Modulus	MPa		527/2	1300
Flexular Modulus	MPa		178	1350
Shore D surface hardness			868	64
Glass transition	°C			-18
Water absorption	%		24 hrs	0.01

<b>THERMAL</b>				
VST @ 10N (VST/A)	°C		306/A	158
HDT@0.45 MPa (HDT/B)	°C		75/B	90
CLTE	cm/(cm °C)		ASTM D570	7.5 x 10 <sup>-5</sup>
Thermal cond.	W/m/K°			1.0

### FLAMABILITY RATING<sup>3</sup>

Horizontal burn	1.5mm	UL94	HB
	3mm	UL94	HB
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 3000) 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.

### Colour, Textures, Capabilities

PRIME 3000 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 3000 can be stabilised against UV degradation. PRIME3000 is available with a smooth or with a textured finish. Emboss swatches are available on request.

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