



PRIME 2000 FR

PRIME 2000 is a Flame Retardant High Density Polyethylene thermoplastic sheet designed for automotive, leisure, transportation and general thermoforming and fabrication applications requiring a flame retardant property. PRIME 2000 FR has a high impact resistance across a wide temperature range, good ESCR characteristics & excellent chemical resistance. (Chemical resistance data is available on request).

Property	Unit	ISO	Value	
PHYSICAL				
Density (Natural)	g/cc	1183	1.10	
Melt Flow (190°C/5kg)	g/10min	118	0.5-0.7	
MECHANICAL				
Izod Impact, notched	kJ/m ²	23°C	180/A	15
		-30°C	180/A	13
Stress @ yield	MPa	50mm/min	527/2	20
Stress @ break	MPa	50mm/min	527/2	30
Strain @ yield	%	50mm/min	527/2	>600
Flexural Modulus	MPa		178	1350
Shore D surface hardness			868	74
THERMAL				
VST@10N (VST/A)	°C		306	123
HDT@0.45 MPa (HDT/B)	°C		75	73
FLAMMABILITY RATING				
	3mm+	UL94		V2

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 2000 FR) 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 2000 FR 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 2000 FR is available with a smooth or with a textured finish. Emboss swatches are available on request.

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