

TECHNICAL DATA SHEET

Flame Retardant Transparent Polycarbonate Sheet

ProductName & No: **LD4000**



Product Description

PolyLine LD4000 sheet, available in ivory white, transparent and translucent opal white colors is a flame retardant, lightweight product that can be an excellent choice for light diffusers and light covers. It offers ease of processing, excellent formability and can help achieve part integration in train ceilings with light diffusers. The product is ideally suited to thermoforming. It offers high, deep draw ratios, equal wall thickness distribution, and it can be formed into complex shapes using standard thermoforming equipment. Sandwich type heating systems give the best results.

Product Datasheet

Item	Property	Value	Unit	Test Method
Physical	Haze	75 ± 3	%	ASTM D1003
	Light Transmission	95 ± 2	%	ASTM D1003
	Density	1.2	g/cm ³	ISO 1183
	Water Absorbing Cap.	0.3	%	ASTM D570
Mechanical	Tensile Strength	60	MPa	ISO 527
	Elongation	>50	%	ISO 527
	Tensile Modulus	2300	MPa	ISO 527
	Flexural Strength	85	MPa	ISO 178
Electrical	Dielectric Constant	3	-	IEC 60250
	Resistant Puncture Voltage	30	MV/mm	IEC 60243
	Arc Resistivity	250	-	IEC 60112
	Surface Resistivity	1.00E+16	Ω/square	IEC 60093
	Volume Resistivity	1.00E+17	Ω-cm	IEC 60093
Thermal	Coefficient of Thermal Expansion	5.8	x10 ⁻⁵ /°C	ISO 11359
	Thermal Conductivity Rate	0.2	W/(m*K)	ASTM D5470
	Thermal Shrinkage	0.5-0.7	%	ASTM D1204
	Tg	152	°C	ISO 11357
Flammability	Grade of Resistant Flame	VTM-0/ VTM-2		UL94