

# POLYLINE™ PL3022T

## Flame Retardant Polycarbonate Sheet



### PRODUCT DESCRIPTION - DATA SHEET

PL3022T sheet is a flame retardant polycarbonate based sheet range available in standard and customized colors. In addition to good flammability performance, making it suitable for a wide variety of applications in railway transportation.

#### Features

- High Flame Retardant Grade: EN45545-2 R4/HL3, R22/HL2
- High Flowability: Thin-wall designation
- Color: Transparent /Diffusion/Custom colors
- Formability: Suitable for injection molding and 3-D designed vacuum forming

#### Application

- Interior train application
- Baggage rack
- Interior panels
- Side window
- Electrical application

Properties	Standard	Condition	Unit	Value
<b>Mechanical Properties</b>				
Tensile Strength	ISO 527	50 mm/min	MPa	60
Flexural Stress	ISO 178	2 mm/min	MPa	90
Flexural Modulus	ISO 178	2 mm/min	MPa	2300
Izod Impact (Notched)	ISO 179	4 J	kJ/m <sup>2</sup>	12
<b>Flame Retardant Properties</b>				
LOI	ISO 4589-2	3 mm	%	≥35
Flame Class Rating	UL94	1.6 mm	Class	V-0
Smoke Density Ds (max)	ISO 5659-2	25 kW/m <sup>2</sup>	/	<300
Smoke Toxicity	ISO 5659-2	50 kW/m <sup>2</sup>	/	<0.75
Reaction to Fire Tests	EN ISO 11925-2	30 s	/	Pass
<b>Heat Properties</b>				
Heat Deflection Temp.	ISO 75-1, -2	1.82 MPa	°C	25
Vicat Softening Temp	ISO 306	B / 50	°C	140
Linear Expansion Coefficient	ISO 11359-2	-20 °C~60 °C	mm/m/°C	≤0.07
<b>Physical Properties</b>				
Density	ISO 1183	23 °C	kg/m <sup>3</sup>	1200~1250
Light Transmission	ASTM D1003	4 mm	-	≥80

1) Above values are measured at 23°C and RH 50%. These values are typical values only, not specifications.

2) In case of colored products, these figures might vary slightly.

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