

TOTAL Polystyrene Crystal 1050T

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

TOTAL TransmYrene POLYSTYRENE 1050T is a high heat resistant, high transmittance crystal polystyrene designed for optical applications. This distinctive grade is specially produced to maximize the light going through it and consequently improving its optical properties.

Applications

Light Guide Panel (LGP)

Other optical applications

Light Diffuser Plate (LDP)

General Information			
Features	High Light Transmission		
	Heat resistance, high		
Uses	Optical applications		
	Illumination diffuser		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.2	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.040	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	70		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	43.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	2950	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact Strength	8.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	105	°C	ISO 306/A50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Dielectric Strength	150	kV/mm	
Optical	Nominal Value	Unit	Test Method

Haze (3060 μm)	0.45	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	70	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	< 240	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	70	°C	
Drying Time	2.0	hr	
Melt Temperature	< 240	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

