

# TOTAL Polystyrene Crystal 1070 (AS)

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

TOTAL POLYSTYRENE 1070 is a high molecular weight, high heat resistant crystal polystyrene for both extrusion and injection applications. This grade has been specifically designed for displaying a low melt flow and higher impact compared to other crystal polystyrenes.

Applications

Bi-Oriented Polystyrene (BOPS)/Thin Film

Light Diffuser Plate (LDP)

High Heat Resistant Thermoformed Product

General Information			
Features	High molecular weight		
	Low liquidity		
	Heat resistance, high		
Uses	Bi-axially Oriented Film		
	Thermoforming Applications		
	Films		
	Illumination diffuser		
Forms	Particle		
Processing Method	Bi-axially Oriented Film		
	Extrusion		
	Thermoforming		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.7	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	51.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact Strength	9.0	kJ/m <sup>2</sup>	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	
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

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