TOTAL Polystyrene Crystal 1070 (EU)

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

POLYSTYRENE CRYSTAL 1070 is a high heat resistance, high molecular weight crystal polystyrene used in extrusion. It is particularly designed for the production of foam sheet and OPS sheet and film.

The high molecular weight gives a high viscosity which gives stable output at the die during direct gassing and good mechanical properties which give strength to both crystal sheets and direct gassed sheets.

Applications

Clamshells for fast food, meat trays, insulation board, OPS sheet, shower screens.

General Information			
Features	High molecular weight		
	Heat resistance, high		
	Viscosity, High		
Uses	Films		
	Foamed insulation board		
	Foam		
	Sheet		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.6	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.70	%	
Water Absorption (Equilibrium, 23°C, 50%			
RH)	< 0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	70		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress (Break)	48.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	8.0	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, not annealed	82.0	°C	ISO 75-2/A
1.8 MPa, annealed	96.0	°C	ISO 75-2/A

Vicat Softening Temperature

	105	°C	ISO 306/A50	
	101	°C	ISO 306/B50	
CLTE - Flow	7.1E-5	cm/cm/°C		
Electrical	Nominal Value	Unit	Test Method	
Surface Resistivity	> 1.0E+14	ohms	IEC 60093	
Dielectric Strength	140	k\//mm		

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