

TOTAL Polystyrene Crystal 1960N

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

POLYSTYRENE CRYSTAL 1960N is a high heat resistance crystal polystyrene with very high flow for the production of thick insulation board. The very low viscosity of this grade combined with its high heat resistance makes it particularly suitable for the production of insulation board with gases such as CO2 and HFC.
This grade is not lubricated.

General Information			
Features	Food Contact Acceptable		
	High Flow		
	High Heat Resistance		
	Low Viscosity		
Uses	Insulation		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Apparent Density	0.60	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	30	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption (23°C, 24 hr)	< 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	3100	MPa	ISO 527-2
Tensile Stress (Break)	35.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	6.0	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	84.0	°C	
1.8 MPa, Annealed	96.0	°C	
Vicat Softening Temperature			
--	105	°C	ISO 306/A50
--	101	°C	ISO 306/B50
CLTE - Flow	7.1E-5	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Electric Strength	140	kV/mm	IEC 60243-1

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