SAFFRON GROUP

Polystyrene Crystal 1960N

Product Specification

DESCRIPTION

Polystyrene Crystal 1960N is a high heat resistance crystal polystyrene with very high ow 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.

APPLICATIONS

Insulation Board (Gassing Process), Masterbatches, XPS.

PROPERTIES

RHEOLOGICAL	METHOD	UNIT	VALUE
Melt flow index (200°C-5kg)	ISO 1133 H	g/10mn	30
THERMAL			
Vicat softening point 10N (T° increase = 50°C/h)	ISO 306A50	°C	105
Vicat softening point 50N (T° increase = 50°C/h)	ISO 306B50	°C	101
HDT unannealed under 1.8MPa	ISO 75-2A	°C	84
HDT annealed under 1.8MPa	ISO 75-2A	°C	96
Coeficient of linear thermal expansion		mm/°C	7.10 E-5
MECHANICAL			
Notched Charpy impact strength	ISO 179/1eA	KJ/m2	6
Tensile strength at break	ISO 527-2	Mpa	35
Elongation at Break	ISO 527-2	%	2
Tensile modulus	ISO 527-2	Mpa	3100
Flexural modulus	ISO 178	Mpa	2900
Rockwell hardness	ISO 2039-2		L70

FOR MORE INFORMATION :
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ELECTRICAL			
Dielectric strength		kV/mm	135
Surface resistivity	ISO IEC 93	Ohms	>10 E+14

MISCELLANEOUS			
Density	ISO 1183	g/cm3	1.05
Moulding shrinkage		%	0.4-0.7
Water absorption	ISO 62	%	<0.1

GENERAL INFORMATION

- Standard properties: All tests carried out at 23°C unless otherwise stated. mechanical properties are measured on injection moulded tests specimens.
- bulk density: bulk density is approximately 0.6 g/cm3.
- Please refer to the Safety data Sheet for further information.
- Please refer to the safety data sheet (MSDS) for handling and storage information. It is advisable to convert the product within six months after delivery provided storage conditions are used as given in the MSDS of our product.

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