

## Total PSC 1960N Crystal Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

### Material Notes:

1960N is a high resistance crystal polystyrene with very high flow for the production of thick insulation board. The very low viscosity of this grade makes it particularly suitable for the production of insulation board with gases with zero ODP effect such as CO2 and HFC. The utilization of this grade pure, or mixed with other high heat resistance LACQRENE grades, allows the production of very thick insulation board (>10cm). This grade is not lubricated. Application Insulation board (5mm to 200 mm) Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines. This product was previously known as LACQRENE®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PSC-1960N-Crystal-Polystyrene.php](http://www.lookpolymers.com/polymer_Total-PSC-1960N-Crystal-Polystyrene.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 200 °C	30 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	70	70	ISO 2039-2
Tensile Strength at Break	35.0 MPa	5080 psi	ISO 527-2
Elongation at Break	2.5 %	2.5 %	ISO 527-2
Tensile Modulus	3.20 GPa	464 ksi	ISO 527-2
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Charpy Impact Unnotched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 µm/m-°C	39.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	Annealed; ISO 75-2A
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	Unannealed; ISO 75-2A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	105 °C	221 °F	10N (T° increase = 5°C/h); ISO 306B50
	105 °C	221 °F	10N (T° increase = 50°C/h); ISO 306A50

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	$\geq 1.00 \times 10^{14}$ ohm	$\geq 1.00 \times 10^{14}$ ohm	ISO IEC93
Dielectric Strength	135 kV/mm	3430 kV/in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China