

## Total Lacqrene® 1070 Crystal Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

Description: LACQRENE® 1070 is a very high molecular weight polystyrene used in extrusion. It is particularly designed for the production of foam sheet, where the very high molecular weight gives a high level of mechanical properties. This grade is also used in the production of OPS sheet and film. Along with a low level of volatile material and excellent optical properties, the very high molecular weight gives: A high viscosity which gives stable output at the die during direct gassing. Good mechanical properties which gives strength to both crystal sheet and direct gassed sheet. Application Clamshells for fast food, Meat trays, Insulation board, OPS sheet, Shower screens Information provided provided by Total Petrochemicals. Total Petrochemicals includes former Fina and Atofina plastics product lines.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-Lacqrene-1070-Crystal-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Total-Lacqrene-1070-Crystal-Polystyrene-nbspdiscontinued-.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	1.5 g/10 min @Load 5.00 kg, Temperature 200 °C	1.5 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	48.0 MPa	6960 psi	ISO 527-2
Elongation at Break	3.0 %	3.0 %	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	0.800 J/cm <sup>2</sup>	3.81 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)	82.0 °C	180 °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.

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