

## Total Lacqrene® 1250 Crystal Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

LACQRENE® 1250 is a very high molecular weight crystal polystyrene mainly for the injection molding industry. It is characterized by a very good compromise between molecular weight, heat resistance and fluidity. This results in excellent processing combined with good demolding properties and high mechanical properties. This allows reduced thickness and high processing speed. Application CD boxes, Medical and laboratory items (Petri dishes, test tubes), Cosmetics packaging, LACQRENE® 1250 can also be used in extrusion for various applications. 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-1250-Crystal-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Total-Lacqrene-1250-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	2.8 g/10 min @Load 5.00 kg, Temperature 200 °C	2.8 g/10 min @Load 11.0 lb, Temperature 392 °F	

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)	81.0 °C	178 °F	Unannealed; ISO 75-2A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	98.1 °C	208 °F	10N (T° increase = 5°C/h); ISO 306B50
	103 °C	217 °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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