

Total PSC 1340 Crystal Polystyrene

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

Material Notes:

1340 is a high molecular weight crystal polystyrene which allows maximum dilution rates with high impact polystyrene grades such as LACQRENE® 7240. In dilution, LACQRENE® 1340 gives excellent processing in both extrusion and thermoforming with good finished product dimensional stability. Application Cups and other products by in line extrusion/thermoforming, Foamed trays by direct gassing (in line thermoforming), Shower screens 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-1340-Crystal-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	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	4.0 g/10 min @Load 5.00 kg, Temperature 200 °C	4.0 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	44.0 MPa	6380 psi	ISO 527-2
Elongation at Break	2.5 %	2.5 %	ISO 527-2
Tensile Modulus	3.10 GPa	450 ksi	ISO 527-2
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Charpy Impact Unnotched	0.800 J/cm ²	3.81 ft-lb/in ²	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)	88.0 °C	190 °F	Annealed; ISO 75-2A
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Unannealed; ISO 75-2A
	93.0 °C	199 °F	50N (T° increase = 5°C/h); ISO

Vicat Softening Point Thermal Properties	Metric	English	306850 Comments
	98.0 °C	208 °F	10N (T° increase = 50°C/h); ISO 306A50

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ISO IEC93
Dielectric Strength	135 kV/mm	3430 kV/in	

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