

Total Lacqrene® 1160(AS) Crystal Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LACQRENE® 1160 is a high resistance, high molecular weight crystal polystyrene mainly for the extrusion industry. It is particularly useful in the production of thick sheet by direct gassing, where it gives expanded sheets with high mechanical properties. LACQRENE® 1160 can be used in dilution with HIPS for the extrusion of sheet for hot-fill thermoforming applications. LACQRENE® 1161 does contain external lubrication. Application Foamed trays, Shower screens, High heat resistant thermoformed products, Transparent cups. In the case of 1161: Audio cassette, Cutlery. 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-1160AS-Crystal-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D1505
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	2.4 g/10 min @Load 5.00 kg, Temperature 200 °C	2.4 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238G

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.1 MPa	6830 psi	ASTM D638M
	480 MPa	69600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	8.83 MPa	1280 psi	ASTM D790
Flexural Modulus	2.84 GPa	412 ksi	ASTM D790
Izod Impact, Notched	0.245 J/cm	0.459 ft-lb/in	Notched/Unnotched not specified; ASTM D256A
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 @Temperature 20.0 °C	39.4 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	79.0 °C	174 °F	ASTM D648
	101 °C	214 °F	50N (T° increase = 5°C/h); ASTM

Vicat Softening Point Thermal Properties	Metric	English	D1525B Comments
	105 °C	221 °F	10N (T° increase = 50°C/h); ASTM D1525A
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 240 °C	392 - 464 °F	
Drying Temperature	70.0 °C	158 °F	Pre drying temperature
Dry Time	2 hour	2 hour	

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