

Total Lacqrene® 1235 High Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LACQRENE® 1235 is a high gloss, high impact polystyrene used in injection molding and co-extrusion. This grade produces articles with a surface gloss level equivalent to that of certain grades of ABS. Applications: Toys, Office equipment, White goods, Telephones, Video cassette shutters, Glossy items by coextrusion. Translucent products by blending with 1240. 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-1235-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 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	5.5 g/10 min @Load 5.00 kg, Temperature 200 °C	5.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	75	75	ISO 2039-2
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527-2
Tensile Strength, Yield	31.0 MPa	4500 psi	ISO 527-2
Elongation at Break	30 %	30 %	ISO 527-2
Tensile Modulus	2.05 GPa	297 ksi	ISO 527-2
Flexural Modulus	2.05 GPa	297 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C	50.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	Annealed; ISO 75-2A
Deflection Temperature at 1.8 MPa	73.0 °C	163 °F	

<small>(264 psi)</small> Thermal Properties	Metric	English	Unannealed; ISO 75-2A Comments
Vicat Softening Point	89.0 °C	192 °F	50N (T° increase = 5°C/h); ISO 306B50
	97.0 °C	207 °F	10N (T° increase = 50°C/h); ISO 306A50

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	ISO IEC93
Dielectric Strength	150 kV/mm	3810 kV/in	

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