

Total Lacqrene® 6631 Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LACQRENE® 6630 and 6631 are easy flowing, high impact polystyrenes for injection molding. With easy processing, good rigidity and ease of coloration. These grades find a wide range of applications. Applications: Disposable razors, Shoe heels, Reels and spools, Tool handles, Toys and games, Food containers, Refrigerator parts, Computer keyboards. 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-6631-Impact-Polystyrene-nbspdiscontinued-.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	13 g/10 min @Load 5.00 kg, Temperature 200 °C	13 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	78	78	ISO 2039-2
Tensile Strength at Break	20.0 MPa	2900 psi	ISO 527-2
Tensile Strength, Yield	25.0 MPa	3630 psi	ISO 527-2
Elongation at Break	45 %	45 %	ISO 527-2
Tensile Modulus	2.00 GPa	290 ksi	ISO 527-2
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Izod Impact, Notched (ISO)	8.50 kJ/m ²	4.04 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C @Temperature 20.0 °C	50.6 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	78.0 °C	172 °F	Annealed; ISO 75-2A
Deflection Temperature at 1.8 MPa	70.0 °C	158 °F	

<small>(264 psi)</small> Thermal Properties	Metric	English	Unannealed; ISO 75-2A Comments
Vicat Softening Point	82.0 °C	180 °F	50N (T° increase = 5°C/h); ISO 306B50
	90.0 °C	194 °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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