

Total Lacqrene® 2901 Medium Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LACQRENE® 2901 is a very easy flowing, medium impact polystyrene for injection molding. The very high flow of this grade allows for the production of thin wall section or long flow path molding on single or multi impression tooling. It is particularly recommended for the production of models. The excellent fluidity and ease of coloring of 2901 finds applications in the production of colored masterbatches giving excellent distributive properties. Application Models, Office equipment - filing trays, Closures, Boxes and lids, Pen bodies, Masterbatches 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-2901-Medium-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	26 g/10 min @Load 5.00 kg, Temperature 200 °C	26 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	24.0 MPa	3480 psi	ISO 527-2
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527-2
Elongation at Break	35 %	35 %	ISO 527-2
Tensile Modulus	2.25 GPa	326 ksi	ISO 527-2
Flexural Modulus	2.30 GPa	334 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 @Temperature 20.0 °C	50.6 µin/in-°F @Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	77.0 °C	171 °F	Unannealed; ISO 75-2A
Vicat Softening Point	79.0 °C	174 °F	50N (T° increase = 5°C/h); ISO 306B50
	87.0 °C	189 °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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