

## Total Lacqrene® 851 High Impact Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

LACQRENE® 851 is a flame retardant, high impact polystyrene, halogen free rated UL 94 V0 @ 2.5 mm and UL 94 5VA @ 2mm. LACQRENE® 851 offers rheological and mechanics properties which permits large moldings. Application LACQRENE® 851(EU) is a flame retardant, high impact polystyrene, halogen free rated UL 94 V0 @ 2.5 mm and UL 94 5VA @ 2mm. LACQRENE® 851 offers rheological and mechanics properties which permits large moldings. 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-851-High-Impact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Total-Lacqrene-851-High-Impact-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	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	4.0 g/10 min	ISO 1133H
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	12 g/10 min	12 g/10 min	ISO 1133H
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 527-2
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 572-2
Elongation at Break	40 %	40 %	ISO 527-2
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact, Notched	0.650 J/cm <sup>2</sup>	3.09 ft-lb/in <sup>2</sup>	ISO 1791/eU

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	50N (T° increase = 5°C/h); ISO 306B50
	100 °C	212 °F	10N (T° increase = 50°C/h); ISO 306A50

Processing Properties	Metric	English	Comments
Processing Temperature	<= 270 °C	<= 518 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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