

**Total Lacqrene® 814(EU) High Impact Polystyrene (discontinued \*\*)**

Category : Polymer , Thermoplastic , Polystyrene (PS)

**Material Notes:**

LACQRENE® 814 is a PBDE free high impact, flame retardant polystyrene with excellent UV stability, rated UL 94 V0 @ 2mm and UL 94 5 VA @ 3mm. Application Covers for electrical equipment, External covers for office equipment, TV back covers, 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-814EU-High-Impact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Total-Lacqrene-814EU-High-Impact-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 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	6.0 g/10 min @Load 5.00 kg, Temperature 200 °C	6.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	19.0 MPa	2760 psi	ISO 527-2
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 572-2
Elongation at Break	45 %	45 %	ISO 527-2
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO 180/1A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	88.0 °C	190 °F	50N (T° increase = 5°C/h); ISO 306B50
	97.0 °C	207 °F	10N (T° increase = 50°C/h); ISO 306A50

Processing Properties	Metric	English	Comments
Processing Temperature	<= 240 °C	<= 464 °F	

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