

## Total Lacqrene® 2551 Medium Impact Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

LACQRENE® 2551 is a high heat resistance, medium impact polystyrene for injection molding. The very high Vicat Softening Point of this grade gives moldings of high rigidity and a good dimensional stability at high operating temperatures. The fast set-up of this grade allows for the production of thick molding with reduced sink marks. Application CD boxes, Disposable razors, Audio cassettes, Cosmetics packaging, Disposable cutlery. 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-2551-Medium-Impact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Total-Lacqrene-2551-Medium-Impact-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 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	7.5 g/10 min @Load 5.00 kg, Temperature 200 °C	7.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	70	70	ISO 2039-2
Tensile Strength at Break	36.0 MPa	5220 psi	ISO 527-2
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527-2
Elongation at Break	15 %	15 %	ISO 527-2
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-2
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	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)	94.0 °C	201 °F	Annealed; ISO 75-2A

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (264 psi)	173 °C	341 °F	Unannealed; ISO 75-2A
Vicat Softening Point	95.0 °C	203 °F	50N (T° increase = 5°C/h); ISO 306B50
	102 °C	216 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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