

## Total Lacqrene® 4241 High Impact Polystyrene (discontinued \*\*)

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

Description LACQRENE® 14240 is a high heat resistance, high impact polystyrene for the extrusion industry. Good mechanical and thermal properties leads to the production of thermoformed articles of good rigidity and toughness with improved temperature performance. LACQRENE® 4240 finds applications in injection blow molding. LACQRENE® 4241 is a high impact polystyrene for the injection molding of articles of good dimensional stability at elevated temperatures, e.g. TV moldings. Applications: Sheet for thermoforming, Industrial sheet, Sanitary ware, Profiles, TV moldings, Shoe heels, Reels and spools, Flower pots. 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-4241-High-Impact-Polystyrene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Total-Lacqrene-4241-High-Impact-Polystyrene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 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 @Load 5.00 kg, Temperature 200 °C	4.0 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	76	76	ISO 2039-2
Tensile Strength at Break	24.0 MPa	3480 psi	ISO 527-2
Tensile Strength, Yield	26.0 MPa	3770 psi	ISO 527-2
Elongation at Break	55 %	55 %	ISO 527-2
Tensile Modulus	2.10 GPa	305 ksi	ISO 527-2
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched	0.981 J/cm	1.84 ft-lb/in	ASTM D256A
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact, Notched	0.100 J/cm <sup>2</sup>	0.476 ft-lb/in <sup>2</sup>	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C	50.6 µin/in-°F	

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	Annealed; ISO 75-2A
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	Unannealed; ISO 75-2A
Vicat Softening Point	89.0 °C	192 °F	50N (T° increase = 5°C/h); ISO 306B50
	97.0 °C	207 °F	10N (T° increase = 50°C/h); ISO 306A50

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	ISO IEC93
Dielectric Strength	150 kV/mm	3810 kV/in	

## Contact Songhan Plastic Technology Co.,Ltd.

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