

Total Lacqrene® 4240(AS) High Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LACQRENE® 4240 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 stability at elevated temperatures, e.g. TV moldings. 4240 is not externally lubricated. Applications: Sheet for thermoforming, TV cabinets, Teletronics, Audio equipments 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-4240AS-High-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
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	ASTM D1238G

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	76	76	ASTM D785
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638M
Elongation at Break	55 %	55 %	ISO 527-2
Flexural Yield Strength	4.41 MPa	640 psi	ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	ASTM D790
Izod Impact, Notched	0.981 J/cm	1.84 ft-lb/in	Notched/Unnotched not specified; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C	163 °F	ASTM D648
Vicat Softening Point	89.0 °C	192 °F	50 N; ASTM D1525B
	97.0 °C	207 °F	10N; ASTM D1525A
Flammability, UL94	HB	HB	

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	

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 240 °C	392 - 464 °F	
Drying Temperature	70.0 °C	158 °F	Pre drying temperature
Dry Time	2 hour	2 hour	

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