

Total PSI 7240 High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

7240 is a very high impact polystyrene for the extrusion industry. This grade has been designed to be diluted with crystal polystyrene (such as LACQRENE® 140, 1340 or 1540) at higher levels than could be achieved by some comparable high impact polystyrenes. The good melt strength of this grade makes it particularly suited for deep-draw thermoforming. Application Dairy sheet, Fill, Seal, Individual dairy pots, Multilayer sheets, Cups, Food trays, Egg boxes Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines. This product was previously known as LACQRENE®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-7240-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	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	4.5 g/10 min @Load 5.00 kg, Temperature 200 °C	4.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	65	65	ISO 2039-2
Tensile Strength at Break	21.0 MPa	3050 psi	ISO 527-2
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527-2
Elongation at Break	60 %	60 %	ISO 527-2
Tensile Modulus	1.90 GPa	276 ksi	ISO 527-2
Flexural Modulus	1.85 GPa	268 ksi	ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	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)	90.0 °C	194 °F	Annealed; ISO 75-2A

Thermal Properties	Metric	English	Comments
Temperature at 1.8 MPa (264 psi)	14.0 °C	16 °F	Unannealed; ISO 75-2A
Vicat Softening Point	87.0 °C	189 °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	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	ISO IEC93
Dielectric Strength	150 kV/mm	3810 kV/in	

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