

Total Finaclear® 521 Clear Impact Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Finaclear® 521 is a clear high styrenic styrene-butadiene (SBS) elastomer, providing dramatically improved impact properties and tear resistance to finished articles, when used in blends with other styrenic polymers such as GPPS. Complemented by inherent reprocessing and recycling capability, Finaclear® 521 is a well established material in both food and non-food transparent packaging applications. Finaclear® 521 complies with most of the food regulations in European countries and with the Food and Drug Administration (FDA) in the USA. Applications: Finaclear® 521 is designed for mono- and multilayer sheet extrusion/thermoforming, cast and blown film extrusion. Due to its specific structure and the well balanced styrene/butadiene ratio, Finaclear® 521 is the material of choice to reach an optimal balance between high impact, good clarity, brilliancy and cost. Information 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-Finaclear-521-Clear-Impact-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in³	ASTM D1895B
Density	1.01 g/cc	0.0365 lb/in³	Finaprene 2602
Melt Index of Compound	7.5 g/10 min @Load 5.00 kg, Temperature 200 °C	7.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238G

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	<= 200 %	<= 200 %	ASTM D638
Flexural Modulus	1.00 GPa	145 ksi	ASTM D790
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256A
	0.250 J/cm @Temperature -30.0 °C	0.468 ft-lb/in @Temperature -22.0 °F	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	65.0 °C	149 °F	120°C/h; ASTM D648
Vicat Softening Point	80.0 °C	176 °F	ASTM D1525

Optical Properties	Metric	English	Comments
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Haze Optical Properties	4.0 % Metric	4.0 % English	ASTM D1003 Comments
Transmission, Visible	91 %	91 %	ASTM D1003

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