

Total 819E Polystyrene (discontinued **)

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

Material Notes:

Polystyrene 819E is a high impact polystyrene extrusion grade with very high stiffness and thermal properties. It makes an excellent gloss/cut resistant layer for foam applications or general thermoforming applications where high temperature resistance is required. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-819E-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Melt Flow	2.6 g/10 min	2.6 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 MPa	5000 psi	ASTM D638
Elongation at Yield	55 %	55 %	ASTM D638
Tensile Modulus	2.28 GPa	330 ksi	ASTM D638
Flexural Strength	62.1 MPa	9000 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256
Falling Dart Impact	14.68 J	10.83 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	97.8 °C	208 °F	Heat Distortion, Annealed; ASTM D648
Vicat Softening Point	104 °C	219 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	85 %	85 %	60°; ASTM D523

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