

I. Stern 870E High Impact Polystyrene Extrusion Grade

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Extrusion Grade

Material Notes:

Features: Good processing characteristics Excellent toughness and environmental stress cracking Applications Thermoformed containers and lids for food packaging Custom extruded sheet profiles Agency Ratings FDA Title 21 CFR 177.1640 UL File E220962 Information provided by I. Stern & Co. Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_I-Stern-870E-High-Impact-Polystyrene-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	21.00 MPa	3046 psi	ASTM D638
Elongation at Yield	50 %	50 %	ASTM D638
Flexural Strength	35.9 MPa	5200 psi	ASTM D790
Flexural Modulus	1.75 GPa	254 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	ASTM D648
Vicat Softening Point	98.9 Â°C	210 Â°F	ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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