

Entec Hyrene® PS-HI 3/4 High Impact Polystyrene

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

Material Notes:

Available in North America Features: High Impact ResistanceRoHS Compliant Form: Pellets Information provided by Entec

Order this product through the following link:

http://www.lookpolymers.com/polymer_Entec-Hyrene-PS-HI-34-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	3.1 g/10 min	3.1 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	22.1 MPa	3200 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	39.3 MPa	5700 psi	ASTM D790
Flexural Modulus	2.02 GPa	293 ksi	ASTM D790
Izod Impact, Notched	2.00 J/cm	3.75 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	Unannealed; ASTM D648
Vicat Softening Point	96.7 °C	206 °F	Rate A (50°C/h), Loading 1 (10 N); ASTM D1525

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	FDA 21 CFR 177.1640

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