

Entec Hyrene® PS-HI 3/3 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-33-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 @Load 5.00 kg, Temperature 200 °C	3.1 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	28.6 MPa	4150 psi	ASTM D790
Flexural Modulus	1.65 GPa	239 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm	2.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Unannealed; ASTM D648
Vicat Softening Point	99.4 °C	211 °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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