



HYRENE® PS-HI 3/3

Entec Polymers - High Impact Polystyrene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Features	• High Impact Resistance
Agency Ratings	• FDA 21 CFR 177.1640
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (200°C/5.0 kg)	3.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F, Injection Molded)	2900	psi	ASTM D638
Tensile Elongation (Break, 73°F, Injection Molded)	60	%	ASTM D638
Flexural Modulus (73°F, Injection Molded)	239000	psi	ASTM D790
Flexural Strength (73°F, Injection Molded)	4150	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.8	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	176	°F	ASTM D648
Vicat Softening Temperature	211	°F	ASTM D1525 ²

Notes

¹ Typical properties: these are not to be construed as specifications.

² Rate A (50°C/h), Loading 1 (10 N)