

# HS-080

## High Impact Polystyrene

**HS-080** is a certified prime resin developed for injection molded applications requiring high Strength coupled with superior Gloss properties. **HS-080** has superior processability, exceptional consistency of melt viscosity that combined reduce injection pressure, shorten cycle time and minimize internal molding stresses, resulting in moldings free of Warpage and outstanding Impact strength. **HS-080** complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
<b>PHYSICAL</b>			
Melt Flow Rate (200°C, 5.0kg)	D1238	g/10 min	8.0
Specific Gravity	D792		1.05
Rockwell Hardness (R-Scale)	D785		60
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup> (1% Secant)	D790	psi	340k
Tensile Modulus	D638	psi	330k
Tensile Strength @ Yield <sup>2</sup>	D638	psi	3k
Notched Izod Impact (0.125 in Inj.)	D256	ft-lb/in	2.4
Tensile Elongation @ Break <sup>2</sup>	D638	%	50
HDT Under Load (264 psi Unannealed)	D648	°F	196
Vicat Softening Temperature	D1525	°F	205

Typical Value of Properties not to be construed as specifications

1 - @ 0.051 in/min

2 - @ 2 in/min.



**Genesis  
Polymers**

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