

HS-120

High Impact Polystyrene

HS-120 is a certified prime grade developed for injection molding applications requiring good strength coupled with good flexibility. **HS-120** offers excellent uniformity and consistency of melt viscosity, easy-flow processability and very good Impact resistance of molded articles. **HS-120** 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
PHYSICAL			
Melt Flow Rate (200°C, 5.0kg)	D1238	g/10 min	12
Specific Gravity	D792		1.05
Rockwell Hardness (R-Scale)	D785		55
MECHANICAL			
Flexural Modulus ¹ (1% Secant)	D790	psi	297k
Tensile Modulus (Inj. Molded)	D638	psi	290k
Tensile Strength @ Yield ²	D638	psi	2300
Notched Izod Impact (0.125 in Inj.)	D256	ft-lb/in	1.7
Tensile Elongation @ Break ²	D638	%	50
HDT Under Load (264 psi Unannealed)	D648	°F	163
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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