

GS-100

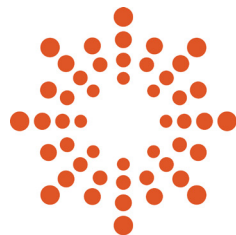
General Purpose Polystyrene

GS-100 is a High Impact Polystyrene certified prime grade specially developed for injection molding applications requiring high surface Scuff resistance. **GS-100** offers high-flow processability, excellent uniformity and consistency of melt viscosity, fast cycling, superior Flexural strength and optimal Toughness of molded articles for improvement of flexural and toughness properties. **GS-100** 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	10
Specific Gravity	D792		1.05
Rockwell Hardness (R-Scale)	D785		105
MECHANICAL			
Flexural Modulus ¹ (1% Secant)	D790	psi	508k
Tensile Modulus	D638	psi	454k
Tensile Strength @ Yield ²	D638	psi	6900
Notched Izod Impact (0.125 in Inj.)	D256	ft-lb/in	0.30
Tensile Elongation @ Break ²	D638	%	1.3
HDT Under Load (264 psi Unannealed)	D648	°F	180
Vicat Softening Temperature	D648	°F	199

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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