

## GS-025 General Purpose Polystyrene

**GS-025** is a High Molecular Weight certified prime grade specially developed for use in foamed sheet extrusion for packaging applications. **GS-025** is designed for injection molding and extrusion applications requiring high tensile strength, high heat resistance and high stiffness. **GS-025** offers good-flow processability, good dimensional stability and excellent clarity of molded articles. **GS-025** 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	2.5
Specific Gravity	D792		1.05
Rockwell Hardness (R-Scale)	D785		105
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup> (1% Secant)	D790	psi	522k
Flexural Strength (73 °F) Inj. Molded	D790	psi	26k
Tensile Modulus	D638	psi	480k
Tensile Strength @ Yield <sup>2</sup>	D638	psi	7800
Notched Izod Impact (0.125 in Inj.)	D256	ft-lb/in	0.20
Tensile Elongation @ Break <sup>2</sup>	D638	%	1.3
Vicat Softening Temperature	D1525	°F	225
HDT Under Load (264 psi Unannealed)	D648	°F	208

Typical Value of Properties not to be construed as specifications

1 - @ 0.051 in/min

2 - @ 2 in/min.



# Genesis Polymers

The technical information, suggested uses and applications presented are made without charge and are believed to be reliable; however, the Ravago Group\* disclaims responsibility for reliance and results of use of this information. THE RAVAGO GROUP DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT(S) DESCRIBED HEREINABOVE, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The Ravago Group expressly disclaims any statements or suggestions as being inducement. All users should rely upon their own knowledge and testing in determining product suitability.