

GS-140

General Purpose Polystyrene

GS-140 is a multipurpose low molecular weight certified prime grade resin specially developed for injection molding thin-wall applications that require easy mold filling and good overall properties. **GS-140** offers superior flexural strength, outstanding clarity, exceptional high-flow processability, fast injection cycling, fast filling long flow paths of intricate mold geometry with minimal stresses in moldings. **GS-140** 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	14
Specific Gravity	D792		1.05
Rockwell Hardness (R-Scale) Inj. Molded	D785		75
MECHANICAL			
Flexural Modulus ¹ (1% Secant)	D790	psi	440k
Tensile Modulus	D638	psi	420k
Tensile Strength @ Yield ²	D638	psi	6100
Notched Izod Impact (0.125 in Inj.)	D256	ft-lb/in	0.30
Tensile Elongation @ Break ²	D638	%	2.0
HDT Under Load (264 psi Unannealed)	D648	°F	189
Vicat Softening Temperature	D1525	°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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