

MELT - 2.5

Gravity - 1.05

SGM-025 is a certified prime grade High Molecular Weight specially developed for both INJECTION MOLDING and EXTRUSION applications requiring high heat resistance, high tensile strength, and high stiffness. **SGM-025** offers a Vicat Softening Temperature of 225°F. **SGM-025** complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles.

Features:

- Good dimensional stability
- Good flow
- Good processability
- High clarity
- High heat resistance
- High molecular weight
- High stiffness
- High tensile strength

Typical Applications:

- Foamed sheet extrusion for packaging e.g. egg trays
- Sheet extrusion for shower cabin panels
- Dinnerware
- Oriented polystyrene (OPS) for cookie and cake trays
- Thin-walled containers
- Consumer electronics

PROPERTIES	ASTM	UNIT	VALUES
PHYSICAL			
Specific Gravity	D792		1.05
Melt MassFlow Rate (200°C/5.0 kg)	D1238	g/10 min	2.5
MECHANICAL (INJECTION MOLD)			
Tensile Modulus	D638	psi	480k
Tensile Strength (Yield)	D638	psi	7800
Tensile Elongation (Break)	D638	%	1.3
Flexural Modulus - 1% Secant	D790	psi	522k
Flexural Strength (73°F)	D790	psi	26k
Notched Izod Impact (0.125 in.)	D256	ft-lb/in	0.20
Rockwell Hardness (R-Scale)	D785		105
HDT (Under Load 264 psi, Unannealed)	D648	°F	208