

MELT - 8.0

GRAVITY - 1.04

**SGM-085** is a certified prime grade specially developed for INJECTION MOLDING general purpose applications. **SGM-085** is an easy processing general purpose resin that offers good balance of processability and high heat properties. **SGM-085** complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles.

### Features:

- Good flexibility
- Good processability
- Good toughness
- High heat resistance

### Typical Applications:

- Thin-walled containers
- Decorative lighting
- Cutlery
- Audio and video cassette boxes
- Blends with high impact Polystyrene for improvement of flexural and toughness properties

PROPERTIES	ASTM	UNIT	VALUES
<b>PHYSICAL</b>			
Specific Gravity	D792		1.04
Melt Mass-Flow Rate (200°C/5.0 kg)	D1238	g/10 min	8.0
<b>MECHANICAL (INJECTION MOLD)</b>			
Tensile Modulus	D638	psi	430k
Tensile Strength (Yield)	D638	psi	6500
Tensile Elongation (Break)	D638	%	2.0
Flexural Modulus - 1% Secant	D790	psi	440k
Notched Izod Impact (0.125 in.)	D256	ft-lb/in	0.30
Rockwell Hardness (R-Scale)	D785		75
HDT (Under Load 264 psi, Unannealed)	D648	°F	214
Vicat Softening Temperature	D1525	°F	221