

MELT - 10

Gravity - 1.05

**SGM-105** is a certified prime grade specially developed for INJECTION MOLDING applications requiring high surface Scuff resistance. **SGM-105** complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food.

### Features:

- Fast molding cycle
- Good abrasion resistance
- Good processability
- Good toughness
- High flow
- High strength

### Typical Applications:

- Thin-walled containers
- Coextrusion cap coating
- Disposable medical ware
- Audio and video cassette shells
- Display boxes
- Protective casing
- Blends with High Impact Polystyrene for improvement of flexural and toughness properties

PROPERTIES	ASTM	UNIT	VALUES
<b>PHYSICAL</b>			
Specific Gravity	D792		1.05
Melt Mass-Flow Rate (200°C/5.0 kg)	D1238	g/10 min	10
<b>MECHANICAL (INJECTION MOLD)</b>			
Tensile Modulus	D638	psi	454k
Tensile Strength (Yield)	D638	psi	6900
Tensile Elongation (Break)	D638	%	1.3
Flexural Modulus - 1% Secant	D790	psi	508k
Notched Izod Impact (0.125 in.)	D256	ft-lb/in	0.30
Rockwell Hardness (R-Scale)	D785		105
HDT (Under Load 264 psi, Unannealed)	D648	°F	180
Vicat Softening Temperature	D1525	°F	199