

MELT - 14

GRAVITY - 1.05

**SGM-140** is a certified prime grade specially developed for INJECTION MOLDING thin-walled applications requiring easy mold filling and good overall properties. **SGM-140** complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles.

### Features:

- Fast molding cycle
- Good moldability
- Good processability
- High clarity
- High strength
- Low molecular weight

### Typical Applications:

- Thin-walled containers
- Cutlery
- Vials
- Jars
- Tumblers
- Disposable medical ware
- Audio and video cassette boxes
- Toys

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	14
<b>MECHANICAL (INJECTION MOLD)</b>			
Tensile Modulus	D638	psi	420k
Tensile Strength (Yield)	D638	psi	6100
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	189
Vicat Softening Temperature	D1525	°F	199