

MELT - 14.5

GRAVITY - 1.05

**SIM-145** is a certified prime grade developed for INJECTION MOLDING applications requiring high Strength coupled with superior Gloss properties. **SIM-145** complies with FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles.

### Features:

- High strength
- Excellent processability
- Melt viscosity
- Short cycle time
- Minimal stress

### Typical Applications:

- Appliance housings
- Housewares
- Furniture components
- Fan grids
- Scale models & toys
- Audio & video cassette shells
- Structural foam moldings

PROPERTIES	ASTM	UNIT	VALUES
<b>PHYSICAL</b>			
Specific Gravity	D792	g/cm <sup>3</sup>	14.5
Melt Mass-Flow Rate (200°C/5.0 kg)	D1238	g/10 min	1.05
<b>MECHANICAL (Injection Molded)</b>			
Tensile Modulus	D638	psi	330k
Tensile Strength (Yield)	D638	psi	3000
Tensile Elongation (Break)	D638	%	50
Flexural Modulus - 1% Secant (0.051in/min)	D790	psi	340k
Notched Izod Impact	D256	ft-lb/in	2.3
Rockwell Hardness (R-Scale)	D785		60
HDT (264psi, Unannealed)	D648	°F	196
Vicat Softening Temperature	D1525	°F	203