

MELT - 12

GRAVITY - 1.05

**SIM-120** is a certified prime grade developed for INJECTION MOLDING applications requiring good strength coupled with good flexibility. **SIM-120** 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 flow
- Good impact resistance
- Good processability
- Good strength
- Blends with Crystal Polystyrene for mechanical properties improvement

### Typical Applications:

- Thin-walled packaging
- Coat-hangers
- Flower pots
- Bathroom accessories
- Appliance components
- Scale models
- Toys
- Audio and video cassette shells

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	12
<b>MECHANICAL (Injection Molded)</b>			
Tensile Modulus	D638	psi	290k
Tensile Strength (Yield)	D638	psi	2300
Tensile Elongation (Break)	D638	%	50
Flexural Modulus - 1% Secant (0.051in/min)	D790	psi	297k
Notched Izod Impact (.125 in)	D256	ft-lb/in	1.7
Rockwell Hardness (R-Scale)	D785		55
HDT (264psi, Unannealed)	D648	°F	163
Vicat Softening Temperature	D1525	°F	205