

MELT - 7.5

Gravity - 1.04

**SGM-080K** is a certified prime grade offering supreme practical toughness and strength for general purpose INJECTION MOLDING applications. **SGM-080K** complies with UL94HB and FDA regulation 21CFR 177.1640 and with most international regulations concerning the use of Polystyrene in contact with food articles. **SGM-080K** has a flammability rating of UL94 HB.

### Features:

- Good processability
- Good toughness
- High clarity
- High strength

### Typical Applications:

- Thin-walled containers
- Disposable cups
- Decorative lighting
- Cutlery
- Audio and video cassette enclosures
- 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 MassFlow Rate (200°C/5.0 kg)	D1238	g/10 min	7.5
<b>MECHANICAL (INJECTION MOLD)</b>			
Tensile Modulus	D638	psi	440k
Tensile Strength (Yield)	D638	psi	6700
Tensile Elongation (Break)	D638	%	2.0
Flexural Modulus - 1% Secant	D790	psi	450k
Notched Izod Impact (0.125 in.)	D256	ft-lb/in	0.30
Rockwell Hardness (R-Scale)	D785		72
HDT (Under Load 264 psi, Unannealed)	D648	°F	198
Vicat Softening Temperature	D1525	°F	208