

## SIS-030E Polystyrene High Impact

**SIS-030E** is a **certified prime** grade specially developed for **EXTRUSION-THERMOFORMING** applications requiring good **ESCR**. **SIS-030E** is a medium-flow grade that offers excellent melt uniformity and consistency of flow, very good extrusion and thermoform processability, and superior impact resistance. The low residual volatiles of this resin makes it particularly suitable for packaging taste and odor sensitive articles. **SIS-030E** complies with FDA regulation 21CFR 177.1640, and with most international regulations concerning the use of Polystyrene in contact with food articles.

### Typical Properties

PROPERTIES*	ASTM TEST	UNIT ENGLISH (METRIC)	NOMINAL VALUES
<b><u>RESIN</u></b>			
Melt Flow Rate	D 1238G	g/10 min	3.2
Specific Gravity @ 23°C	D 792	g/cm <sup>3</sup>	1.03
<b><u>MOLDED SPECIMEN</u></b>			
Izod Impact, notched <sup>3</sup>	D 256	ft.lb/in (J/m)	2.7 (144)
Tensile Strength <sup>2</sup>	D 638	psi x 1000 (MPa)	2.6 (18)
Tensile Modulus	D 638	psi x 1000 (MPa)	240 (1655)
Flexural Modulus <sup>1</sup>	D 790	psi x 1000 (MPa)	225 (1551)
Ultimate Elongation <sup>2</sup>	D 638	%	85
Vicat Softening Point	D 1525	°C	102
HDT @ 1.82 N/sq.mm	D 648	°C	85

**TYPICAL VALUE OF PROPERTIES NOT TO BE CONSTRUED AS SPECIFICATIONS.**

\*- Test specimens from injection molded plaques according to ASTM D1897.

1 - 1% Secant @ 1.3 mm/min. speed

2 - @ 5 mm/min. speed

3 - Specimen width 3.17 mm (0.125 in).

**THIS PRODUCT DATA SHEET EFFECTIVE JULY 2010 SUPERSEDES ALL DATA PREVIOUSLY PUBLISHED**

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