

SGS-030 General Purpose Polystyrene

SGS-030 is a **certified prime** grade General Purpose Polystyrene designed for injection molding, blow molding and extrusion applications. **SGS-030** contains an external lubricant and combines a good balance of flow, strength, heat resistance and clarity. **SGS-030** applications include containers, labware, consumer disposables and profile extrusions. **SGS-030** offers a Vicat Softening Temperature of 223°F. **SGS-030** complies with FDA regulation 21CFR177.1640 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	
<u>RESIN</u>				
Melt Index (230°C/5.0 kg)	D 1238	grs/10 min	3.0	
Specific Gravity	D 792		1.04	
<u>TYPICAL PROPERTIES</u>				
Tensile Modulus	D 638	psi (MPa)	460,000	(3200)
Tensile Strength (Yield)	D 638	psi (MPa)	7100	(49)
Tensile Elongation (Break)	D 638	%	2	
Flexural Modulus	D 790	psi (MPa)	480,000	(3300)
Flexural Strength	D 790	psi (MPa)	14,500	(100)
Notched Izod Impact (1/8")	D 256	ft.lb/in (J/m)	0.4	(22)
Rockwell Hardness	D 785	M	105	
HDT @ 264 psi, annealed	D 648	°F °C	200	93
Vicat Softening Temp (B/1)	D 1525	°F °C	223	106

TYPICAL VALUE OF PROPERTIES NOT TO BE CONSTRUED AS SPECIFICATIONS

THIS PRODUCT DATA SHEET EFFECTIVE FEBRUARY 2016 SUPERSEDES ALL DATA PREVIOUSLY PUBLISHED

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