

# CERTENE™ SIS-030

High Impact Polystyrene  
Muehlstein

Message:

SIS-030 is a certified prime grade specially developed for EXTRUSION-THERMOFORMING applications requiring good Elongation and Rigidity. SIS-030 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-030 applications include deep-draw vacuum-forming tubs for ice-cream, drink and yogurt cups, lids, plates, and customized multiplayer sheet coextrusion. SIS-030 complies with FDA regulation 21CFR 177.1640, and with most international regulations concerning the use of Polystyrene in contact with food articles.

General Information			
Features	Low Residuals		
	Rigidity, high		
	High tensile strength		
	Impact resistance, high		
	Good liquidity		
	The smell is low to none		
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	Extended tensile rate		
Uses	Cup		
	Cover		
	Sheet		
	Thermoformed container		
	Food container		
	Disposable tableware		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness <sup>1</sup> (R-Scale)	55		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2200	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield, Injection Molded)	24.8	MPa	ASTM D638

Tensile Elongation <sup>3</sup> (Break, Injection Molded)	45	%	ASTM D638
Flexural Modulus - 1% Secant <sup>4</sup> (Injection Molded)	2280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	93.0	°C	ASTM D648
Vicat Softening Temperature <sup>5</sup>	102	°C	ASTM D1525
NOTE			
1.	Injection molded		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	1.3 mm/min		
5.	Injection molded		

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#### Recommended distributors for this material

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