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	Good Flow
	High Elongation
	High Impact Resistance
	High Rigidity
	High Tensile Strength
	Low Residuals
	Low to No Odor
	Low to No Taste
Uses	Cups
	Disposable Tableware
	Food Containers
	Lids
	Sheet
	Thermoformed Containers
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Coextrusion
	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	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 [1] (R-Scale)	55		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	2200	MPa	ASTM D638
Tensile Strength [2] (Yield, Injection Molded)	24.8	MPa	ASTM D638

Tensile Elongation [3] (Break, Injection Molded)	45	%	ASTM D638
Flexural Modulus - 1% Secant [4] (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 [5]	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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