CERTENE™ SGS-015

General Purpose Polystyrene

Muehlstein

Message:

SGS-015 is a certified prime grade High Molecular Weight specially developed for EXTRUSION-THERMOFORMING of foamed sheet used in critical taste and odor sensitive applications. SGS-015 offers high melt viscosity, easy processability, very low residual volatiles, excellent clarity, good cell structure formation, and high heat resistance to provide excellent performance in hot food packaging. SGS-015 typical applications include foamed sheet for use in egg cartons, meat and produce trays, fast food and dinnerware packaging, extrusion of solid sheet, and biaxially oriented (OPS) polystyrene sheet for cookie and cake trays. SGS-015 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	Food Contact Acceptable
	Good Processability
	High Clarity
	High Heat Resistance
	High Molecular Weight
	High Viscosity
	Low Residuals
	Low to No Taste
Uses	Foam
	Food Packaging
	Microwavable Trays
	Packaging
	Sheet
	Support Trays
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	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)	1.5	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness [1] (M-Scale)	78		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	2960	MPa	ASTM D638
Tensile Strength [2] (Yield, Injection Molded)	52.4	MPa	ASTM D638

Tensile Elongation [3] (Break, Injection Molded)	1.5	%	ASTM D638
Flexural Modulus - 1% Secant [4] (Injection Molded)	2960	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm, Injection Molded)	16	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	100	°C	ASTM D648
Vicat Softening Temperature [5]	107	°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		

Recommended distributors for this material

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