

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	Low Residuals		
	High molecular weight		
	Workability, good		
	Heat resistance, high		
	The smell is low to none		
	Definition, high		
	Compliance of Food Exposure		
	Viscosity, High		
Uses	Packaging		
	Foam		
	Sheet		
	Food packaging		
	Microwave tray		
	Bracket tray		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	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		

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