

Resirene® HH 103

Resirene, S.A. de C.V. - General Purpose Polystyrene

General Information

Product Description

FEATURES

- High Viscosity
- Heat Resistance
- Mechanical Resistance
- FDA Rating: 21 CFR 177.1640

APPLICATIONS

- Foaming
- Sheet Extrusion
- Single Service Cutlery and Drinkware
- Blending with HIPS

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Features	• Fast Molding Cycle	• Good Heat Resistance	
	• Foamable	• Low Flow	
Uses	• Blending	• Foam	• Sheet
	• Disposable Drinkware	• Kitchenware	• Single-Use Applications
Agency Ratings	• FDA 21 CFR 177.1640		
Processing Method	• Extrusion	• Foam Processing	• Sheet Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.8	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	500000	psi	ASTM D638
Tensile Strength (Break)	6960	psi	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	189	°F	ASTM D648
Vicat Softening Temperature	207	°F	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance	90.0	%	ASTM D1003

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	104	°F
Cylinder Zone 2 Temp.	356 to 374	°F
Cylinder Zone 3 Temp.	374 to 392	°F
Cylinder Zone 4 Temp.	392 to 410	°F
Cylinder Zone 5 Temp.	410 to 428	°F
Melt Temperature	482	°F

