

TECHNICAL DATA SHEET

RESIRENE® HH 103

GENERAL PURPOSE POLYSTYRENE (GPPS)

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

PROPERTIES

Physical	English	Value	Metric	Value	Test Method
Melt Flow Rate (200°C/5.0 Kg)	g/10 min	1.8	g/10 min	1.8	ASTM D1238
Density	lb/ft ³	65	g/cm ³	1.04	ASTM D792
Mechanical					
Break Elongation	%	5	%	5	ASTM D638
Tensile Strength, Break	Psi	7,000	MPa	48	ASTM D638
Tensile Modulus	Kpsi	500	MPa	3,450	ASTM D638
Thermal					
Vicat Temperature	°F	207	°C	97	ASTM D1525
HDT @ 264 psi (unannealed)	°F	190	°C	87	ASTM D648
Ignition Characteristics					
Flammability	-	HB	-	HB	UL 94
Optical					
Light Transmittance	%	90	%	90	ASTM D1003

Properties reported in this data sheet are determined according to referred standard methods. Values shown represent averages from typical results measured in the laboratory and are provided only as a guide, not as specification limits.

EXTRUSION CONDITIONS

	°C	°F
Initial zone	40	104
Feeding zone	180-190	356-374
Transport zone	190-200	374-392
Compression zone	200-210	392-410
Pumping zone	210-220	410-428
Melt	250	482

ADDITIONAL INFORMATION

Warning:

Combustion of this material may cause hazardous fumes and gases that may be dangerous to health, especially in enclosed places. It should be noted that excessive heating or long residence time may cause degradation or yellowing.

Note:

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