

TECHNICAL DATA SHEET

RESIRENE Q-rPS® 25IN

GENERAL PURPOSE POLYSTYRENE (GPPS)

FEATURES

- Medium flow
- Easy to process.
- High productivity
- Contains 25% certified post-consumer PS
- 55% Carbon Footprint reduction¹
- FDA Rating: 21 CFR 177.1640²

APPLICATIONS

- Injection Molding
- Sustainable single-use food service packaging
- Officeware
- Blending with HIPS

TYPICAL PROPERTY VALUES

Physical	English	Value	SI	Value	Test Method
Melt Flow Rate (200°C/5.0 kg)	g/10 min	8.5	g/10 min	8.5	ASTM D1238
Density	lb/ft ³	65	g/cm ³	1.04	ASTM D792
Mechanical					
Break Elongation	%	1.6	%	1.6	ASTM D638
Tensile Strength, Break	psi	6,000	MPa	41	ASTM D638
Yield Elongation	%	1.6	%	1.6	ASTM D638
Tensile Modulus	kpsi	423	MPa	2,910	ASTM D638
Thermal					
VICAT Softening Temperature (120°C/10 N)	°F	228	°C	109	ASTM D1525
Heat Deflection Temperature (264 psi unannealed)	°F	172	°C	78	ASTM D648
Optical					
Haze	-	>9	-	>9	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.

INJECTION 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	230	446



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.

¹ Comparing with Virgin GPPS produced by Resirene

² When the material is used unmodified for the manufacture of food contact articles, will comply with Food Additive Regulation 21 CFR 177.1640 under the U.S. FDA's, Food, Drug, and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.

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