TECHNICAL DATA SHEET

RESIRENE® HF 555

GENERAL PURPOSE POLYSTYRENE (GPPS)

FEATURES

- High Flow
- Easy to Process
- High Productivity
- Ideal for Thin Wall and Complex Parts
- FDA Rating: 21 CFR 177.1640

APPLICATIONS

- Injection Molding
- Coextrusion
- Cutlery
- Toys

TYPICAL PROPERTY VALUES

Physical	English	Value	SI	Value	Test Method
Melt Flow Rate (200°C/5.0 Kg)	g/10 min	16	g/10 min	16	ASTM D1238
Density	lb/ft³	65	g/cm³	1.04	ASTM D792
Mechanical					
Break Elongation	%	1.5	%	1.5	ASTM D638
Tensile Strength, Break	psi	5,550	MPa	38	ASTM D638
Tensile Modulus	kpsi	432	MPa	2,980	ASTM D638
Thermal					
VICAT Softening Temperature (120°C/, 10 N)	°F	201	°C	94	ASTM D1525
Heat Deflection Temperature (264 psi, unannealed)	°F	160	°C	71	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.

INJECTION MOLDING CONDITIONS

	°C	°F
Rear	190-200	375-390
Center	200-210	390-410
Front	210-220	410-430
Nozzle	220-230	430-445

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.
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