

# TECHNICAL DATA SHEET

## RESIRENE® 4220

### HIGH IMPACT POLYSTYRENE (HIPS)

#### FEATURES

- High Flow
- High Impact
- High Productivity
- Easy to Process
- FDA Rating: 21 CFR 177.1640

#### APPLICATIONS

- Injection Molding
- Electronic Devices
- Printers
- Toys

#### TYPICAL PROPERTY VALUES

Physical	English	Value	SI	Value	Test Method
Melt Flow Rate (200°C/5.0 kg)	g/10 min	7.5	g/ 10 min	7.5	ASTM D1238
Density	lb/ft <sup>3</sup>	65	g/cm <sup>3</sup>	1.04	ASTM D792
Mechanical					
Break Elongation	%	45	%	45	ASTM D638
Tensile Strength, Break	psi	2,600	MPa	18	ASTM D638
Tensile Modulus	kpsi	275	MPa	1,900	ASTM D638
(* ) 0.2 in/min (5 mm/min)					
Impact					
Notched Izod Impact (0.5 in)	ft-lb <sub>f</sub> /in	1.8	J/m	96	ASTM D256
Ignition Characteristics					
Flammability	-	<a href="#">HB</a>	-	<a href="#">HB</a>	UL 94
Thermal					
VICAT Softening Temperature (120°C/, 10 N)	°F	207	°C	97	ASTM D1525
Heat Deflection Temperature (264 psi unannealed)	°F	156	°C	69	ASTM D648

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	190-200	375-390
Central Zone	200-210	390-410
Front zone	210-220	410-430
Noddle	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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