Resirene

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 Items
- Printers
- Toys

PROPERTIES

Physical	English	Value	Metric	Value	Test Method
Melt Flow Rate (200°C/5.0 Kg)	g/10 min	8	g/10 min	8	ASTM D1238
Density	lb/ft^3	65	g/cm^3	1.04	ASTM D792
Mechanical					
Break Elongation	%	50	%	50	ASTM D638
Tensile Strength, Break	Psi	2500	MPa	17	ASTM D638
Tensile Modulus	Kpsi	290	MPa	2,000	ASTM D638
Impact					
Notched Izod Impact (⅛ in - 3.175 mm)	$ft\text{-}lb_f/in$	2.0	J/m	107	ASTM D256
Ignition Characteristics					
Flammability	-	HB	-	HB	UL 94
Thermal					
Vicat Temperature	°F	176	°C	80	ASTM D1525
HDT @ 264 psi (unannealed)	°F	162	°C	72	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 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 or yellowing.

Note:
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