

TECHNICAL DATA SHEET

RESIRENE CET® 250

IMPACT MODIFIED STYRENE ACRYLIC COPOLYMER (MBS)

FEATURES

- High Transparency
- Easy to Process
- Practical Toughness
- FDA Compliant
- USP Rating: Class VI Plastics
- Gamma & EtO Sterilizable

APPLICATIONS

- Transparent Glassware
- Cosmetic Packaging
- Appliances
- Medical Devices
- Office Accesories

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/in ³	0.04	g/cm ³	1.05	ASTM D792
Mechanical					
Tensile Strength, Break	kpsi	3.2	MPa	22	ASTM D638
Break Elongation	%	160	%	160	ASTM D638
Tensile Strength, Yield	kpsi	3	MPa	19	ASTM D638
Yield Elongation	%	2	%	2	ASTM D638
Tensile Modulus	kpsi	222	MPa	1,530	ASTM D638
(*) 0.2 in/min (5 mm/min)					
Impact					
Notched Izod (0.125 in / 3.175 mm)	ft-lb _f /in	0.7	J/m	37	ASTM D256
Unnotched Izod (0.125 in / 3.175 mm)	ft-lb _f /in	Doesn't break	J/m	Doesn't break	ASTM D256
Thermal					
VICAT Softening Temperature (120°C/ 10 N)	°F	194	°C	90	ASTM D1525
Heat Deflection Temperature (264 psi, unannealed)	°F	159	°C	70	ASTM D648
Optical					
Haze	%	5	%	5	ASTM D1003
Light Transmission	%	87	%	87	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
Initial Zone	160-170	320-338
Center	170-180	338-356
Front	180-190	356-374
Nozzle	200-210	392-410
Mold	40	104
Maximum recommended	250	482

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ADDITIONAL INFORMATION

This product presents a very low moisture absorption and it is a common practice to process it without pre-drying; however, if it has been exposed to high humidity or in direct contact with water, it is recommended to dry it for 2 hours at 140°F (60°C).

Resirene's materials are biological and chemically inert. If possible recycling of final parts is recommended. If you require dispose it, follow indications established by government laws, related norms and the material safety data sheet.

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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