

TECHNICAL DATA SHEET

RESIRENE CET® 123

STYRENE ACRYLIC COPOLYMER (SMMA)

FEATURES

- Excellent Clarity
- Easy to Process
- Low Density
- FDA Rating: 21 CFR 177.1830
- USP Rating: Class VI Plastics
- Gamma & EtO Sterilizable

APPLICATIONS

- Drinkware
- Housewares
- Cosmetic Packaging
- Medical Devices
- Health Care Items

TYPICAL PROPERTY VALUES

Physical	English	Value	Metric	Value	Test Method
Melt Flow Rate (200°C/5.0 kg)	g/10 min	3	g/ 10 min	3	ASTM D1238
Density	lb/ft ³	68	g/cm ³	1.09	ASTM D792
Mechanical (*)					
Tensile Strength, Break	kpsi	8.6	MPa	60	ASTM D638
Break Elongation	%	2	%	2	ASTM D638
Tensile Strength, Yield	kpsi	7.2	MPa	50	ASTM D638
Yield Elongation	%	2	%	2	ASTM D638
Tensile Modulus	kpsi	445	MPa	3,000	ASTM D638
(*) 0.2 in/min (5 mm/min)					
Impact					
Notched Izod (0.125 in / 3.175 mm)	ft-lb _f /in	0.3	J/m	16	ASTM D256
Unnotched Izod (0.125 in / 3.175 mm)	ft-lb _f /in	3.4	J/m	181	ASTM D256
Thermal					
VICAT Softening Temperature (120°C/, 10 N)	°F	216	°C	102	ASTM D1525
Heat Deflection Temperature (264 psi, unannealed)	°F	184	°C	85	ASTM D648
Optical					
Haze	%	0.9	%	0.9	ASTM D1003
Light Transmittance	%	92	%	92	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	170-180	340-360
Center	180-190	360-375
Front	200-210	390-410
Maximum recommended	250	480

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.

Note: The data contained herein is provided for information purposes only. By providing such information, Resirene S.A de C.V. makes no guarantee and does not assume any liability concerning the accuracy or completeness of such information and the results obtained with this product in any specific instance; because of this, expressly disclaims all implied warranties of merchantability or fitness to a particular purpose. Nothing contained herein shall be constructed as a license to use the products of Resirene, S.A. de C.V in any manner that would infringe any patent.