

TECHNICAL DATA SHEET

RESIRENE CET® 116

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
- Houseware
- Cosmetic Packaging
- Medical Devices
- Health Care Items

TYPICAL PROPERTY VALUES

Physical	English	Value	SI	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	67	g/cm ³	1.08	ASTM D792
Mechanical					
Tensile Strength, Break	psi	7,970	MPa	55	ASTM D638
Break Elongation	%	2.5	%	2.5	ASTM D638
Tensile Modulus (*) 0.2 in/min (5 mm/min)	kpsi	421	MPa	2,900	ASTM D638
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	3.5	J/m	187	ASTM D256
Thermal					
VICAT Softening Temperature (120°C/ 10 N)	°F	221	°C	105	ASTM D1525
Heat Deflection Temperature (264 psi, unannealed)	°F	172	°C	78	ASTM D648
Ignition Characteristics					
Flammability (0.060 in 1.524 mm)	-	HB	-	HB	UL94
Optical					
Haze	%	0.4	%	0.4	ASTM D1003
Light Transmission	%	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.

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