CET® 123

Resirene, S.A. de C.V. - *Styrene Methyl Methacrylate Acrylic Copolymer*

General Information

Product Description

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

General			
Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Features	• Copolymer • Ethylene Oxide Sterilizable • Good Processability	• Good Sterilizability • High Clarity • Low Density	• Radiation Sterilizable
Uses	• Cosmetic Packaging • Household Goods	• Medical Devices • Medical/Healthcare Applications	• Packaging
Agency Ratings	• FDA 21 CFR 177.1830	• USP Class VI	
Appearance	• Clear/Transparent		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2]	435000	psi	ASTM D638
Tensile Strength [2] (Yield)	7250	psi	ASTM D638
Tensile Strength [2] (Break)	8700	psi	ASTM D638
Tensile Elongation [2] (Yield)	2.0	%	ASTM D638
Tensile Elongation [2] (Break)	2.0	%	ASTM D638
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (0.125 in)	0.30	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	3.4	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed, 0.500 in)	185	°F	ASTM D648
Vicat Softening Temperature [3]	216	°F	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Light Transmittance	92.0	%	ASTM D1003
Haze	0.900	%	ASTM D1003

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	338 to 356	°F
Middle Temperature	356 to 374	°F
Front Temperature	392 to 410	°F
Processing (Melt) Temp	< 482	°F

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 0.20 in/min

[3] 3.175 mm