



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

Features	<ul style="list-style-type: none"> • Copolymer • Ethylene Oxide Sterilizable • Good Processability 	<ul style="list-style-type: none"> • Good Sterilizability • High Clarity • Low Density 	<ul style="list-style-type: none"> • Radiation Sterilizable
Uses	<ul style="list-style-type: none"> • Cosmetic Packaging • Household Goods 	<ul style="list-style-type: none"> • Medical Devices • Medical/Healthcare Applications 	<ul style="list-style-type: none"> • Packaging
Agency Ratings	<ul style="list-style-type: none"> • FDA 21 CFR 177.1830 	<ul style="list-style-type: none"> • USP Class VI 	
Appearance	<ul style="list-style-type: none"> • Clear/Transparent 		
Processing Method	<ul style="list-style-type: none"> • 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

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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