PolySource

CET® 250
Resirene, S.A. de C.V. - Styrene Methyl Methacrylate Acrylic Copolymer

General Information

Product Description

IMPACT MODIFIED STYRENE ACRYLIC COPOLYMER (MBS)

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

APPLICATIONS
- Glassware
- Cosmetic Packaging
- Appliances
- Medical Devices
- Office Supplies

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Additive	• Impact Modifier		
Features	• Copolymer • Ethylene Oxide Sterilizable • Good Processability	• Good Sterilizability • Good Toughness • High Clarity	• Impact Modified • Radiation Sterilizable
Uses	• Appliances • Cosmetic Packaging	• Kitchenware • Medical Devices	• Medical/Healthcare Applications • Packaging
Agency Ratings	• FDA	• USP Class IV	
Appearance	• Clear/Transparent		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.0	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus [2]	222000	psi	ASTM D638
Tensile Strength [2] (Yield)	2760	psi	ASTM D638
Tensile Strength [2] (Break)	3190	psi	ASTM D638
Tensile Elongation [2] (Yield)	2.0	%	ASTM D638
Tensile Elongation [2] (Break)	160	%	ASTM D638

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.69	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	No Break		ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	158	°F	ASTM D648
Vicat Softening Temperature	194	°F	ASTM D1525

Optical	Nominal Value	Unit	Test Method
Light Transmittance	87.0	%	ASTM D1003
Haze	5.00	%	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