

CET® 123

Styrene Methyl Methacrylate Acrylic Copolymer

Resirene, S.A. de C.V.

Message:

A transparent styrene-acrylic copolymer with sparkling clarity, good toughness and scratch resistance, that is easy to process.

General Information			
Features	Copolymer		
	Good Processability		
	Good Stiffness		
	Good Toughness		
	High Clarity		
	Scratch Resistant		
Uses	Appliances		
	Cosmetic Packaging		
	Medical Devices		
	Medical/Healthcare Applications		
	Packaging		
	Toys		
Agency Ratings	FDA 21 CFR 177.1830		
	USP Class VI		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3290	MPa	ASTM D638
Tensile Strength ² (Break)	61.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	6.0	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	76.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525

Optical	Nominal Value	Unit	Test Method
Transmittance	92.0	%	ASTM D1003

Injection	Nominal Value	Unit
Rear Temperature	170 to 180	°C
Middle Temperature	180 to 190	°C
Front Temperature	200 to 210	°C
Nozzle Temperature	210 to 220	°C
Processing (Melt) Temp	< 250	°C
Mold Temperature	40.0	°C

NOTE		
1.	5.0 mm/min	
2.	5.0 mm/min	
3.	5.0 mm/min	

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