

CET® 116

Styrene Methyl Methacrylate Acrylic Copolymer

Resirene, S.A. de C.V.

Message:

A transparent styrene-acrylic copolymer with excellent clarity, good impact resistance, that is easy to process.

General Information			
UL YellowCard	E85100-529076		
Features	Copolymer		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Clarity		
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	1.08	g/cm ³	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 ¹	3280	MPa	ASTM D638
Tensile Strength ² (Break)	52.1	MPa	ASTM D638
Tensile Elongation ³ (Break)	5.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	16	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	86.0	°C	ASTM D648

Vicat Softening Temperature	96.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	ASTM D1003
Additional Information	Nominal Value		Test Method
Chemical Resistance ⁴			ASTM D543
Acetic Acid 20% : 25°C	Unaffected		
Ethanol 50% : 25°C	Unaffected		
Hand Soap 100% : 25°C	Unaffected		
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	1.0	hr	
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		
4.	30 days		

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