

KMI KM12SAC

Styrene Methyl Methacrylate Acrylic Copolymer

KMI Group, Inc.

Message:

KM12SAC is a styrene acrylic copolymer that can be used in a variety of applications demanding a strong, stiff waterclear plastic resin with excellent thermal stability.

FEATURES

- Sparkling clarity
- Low density
- Ease of processing
- Gamma & ETO sterilize-able
- Meets USP XXIII specifications for Class VI plastics

APPLICATIONS

- Point of purchase displays
- Reusable drink-ware
- Medical devices
- Toys
- Office accessories

General Information			
Features	Low density		
	Radiation disinfection		
	Rigid, good		
	Copolymer		
	Ethylene oxide disinfection		
	Workability, good		
	Good strength		
	Definition, high		
	Thermal stability, good		
Uses	Displays		
	Toys		
	Medical devices		
Agency Ratings	USP XXIII, 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)	1.9	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.60	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3240	MPa	ASTM D638
Tensile Strength (Yield)	57.9	MPa	ASTM D638
Tensile Elongation (Break)	2.1	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	97.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ASTM D1525 ¹
Maximum Service Temperature	260	°C	
Optical	Nominal Value	Unit	Test Method
Refractive Index ²	1.570		ASTM D542
Transmittance (550 nm)	91.3	%	ASTM D1003
Haze	0.30	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	82	°C	
Drying Time	2.0	hr	
Rear Temperature	182 - 216	°C	
Middle Temperature	199 - 232	°C	
Front Temperature	210 - 243	°C	
Processing (Melt) Temp	210 - 243	°C	
Mold Temperature	32 - 60	°C	
Injection Rate	Slow-Moderate		
NOTE			
1.	标准 B (120°C/h), 压力1 (10N)		
2.	Sodium D Line		

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