

BMC 940

Vinyl Ester

Bulk Molding Compounds, Inc.

Message:

BMC 940 is a Vinyl Ester product. It can be processed by compression molding and is available in North America. BMC 940 applications include electrical/electronic applications, electrical appliances and the automotive industry.

Features include:

flame retardant/rated flame

Corrosion resistance

General Information			
Features	Good electrical performance		
	Good corrosion resistance		
Uses	Electrical/Electronic Applications		
	Home appliance components		
	Application in Automobile Field		
Forms	BMC-Block Molding Compound		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.82	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength (Yield)	30.3	MPa	ASTM D638
Tensile Elongation (Yield)	4.0E-3	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	16	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	3.57	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	200	°C	ASTM E1356
Flammability	Nominal Value	Test Method	
Flame Rating (3.56 mm)	V-0	UL 94	
Additional Information			

Conductivity, Vendor, Through Plane (Z-direction): 50 S/cm Conductivity, Vendor, In Plane (X,Y direction): 100 S/cm Instrumented Impact, ASTM D3763, 23°C, Max Load=169 lbs, Total Energy: 2.63 ft-lb Instrumented Impact, ASTM D3763, 23°C, Max Load=169 lbs, Energy to Max Load: 0.55 ft-lb Compressive Creep, ASTM D2990, 200 psi, 200 hr @ 80°C: 0.025% Compressive Creep, ASTM D2990, 200 psi, 1000 hr @ 80°C: 0.040% DMA-Modulus, ASTM D4065, 25°C: 2.0×10^6 DMA-Modulus, ASTM D4065, 100°C: 1.6×10^6 DMA-Modulus, ASTM D4065, 150°C: 1.23×10^6 DMA-Modulus, ASTM D4065, 175°C: 0.94×10^6 DMA-Modulus, ASTM D4065, 200°C: 0.50×10^6 Thermal Expansion, E831: 30 micro m/m°C Thermal Conductivity, E1461-92, In-Plane, 25°C: 46.2 W/m-K Thermal Conductivity, E1461-92, In-Plane, 85°C: 43.7 W/m-K Thermal Conductivity, E1461-92, Through-Plane, 25°C: 19.2 W/m-K Thermal Conductivity, E1461-92, Through-Plane, 85°C: 18.5 W/m-K Diffusivity, E1461-92, In-Plane, 25°C: $0.302 \text{ cm}^2/\text{s}$ Diffusivity, E1461-92, In-Plane, 85°C: $0.231 \text{ cm}^2/\text{s}$ Diffusivity, E1461-92, Through-Plane, 25°C: $0.125 \text{ cm}^2/\text{s}$ Diffusivity, E1461-92, Through-Plane, 85°C: $0.098 \text{ cm}^2/\text{s}$

Injection	Nominal Value	Unit
Mold Temperature	163 - 168	°C
Injection instructions		

Cure Time: 30-60 sec Recommended tonnage: 3 tons per square inch of projected part area

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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