

BMC 1454

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 1454 is a special low-cost material developed specifically for injection molding circuit breakers. It has considerable flame, arc and track resistance. BMC 1454 is a medium strength material with excellent flexural strength necessary to meet the arc interruption test required for circuit breakers. UL® recognized. This material was formerly known as Glastic® 1454.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Arc Resistant		
	Electrically Insulating		
	Flame Retardant		
	Good Electrical Properties		
	Good Strength		
Uses	Tracking Resistant		
	Electrical Parts		
Forms	Electrical/Electronic Applications		
	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.88 to 1.94	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070 to 0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	34.5 to 41.4	MPa	ASTM D638
Flexural Modulus	9650 to 11000	MPa	ASTM D790
Flexural Strength	75.8 to 89.6	MPa	ASTM D790
Compressive Strength	159 to 172	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	240 to 290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method

Dielectric Strength ¹	20	kV/mm	ASTM D149
Dissipation Factor			ASTM D150
60 Hz ²	0.058		
60 Hz ³	0.027		
1 MHz ⁴	0.14		
1 MHz ⁵	0.15		
Arc Resistance	213	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value	Unit	
Track Resistance	1.0	day	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	280 to 330	°C	
NOTE			
1.	Method A (Short-Time)		
2.	Condition D		
3.	Condition A		
4.	Condition A		
5.	Condition D		

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