

# SumiDurez PM 9820

Phenolic

SumiDurez Singapore Pte Ltd

## Message:

PM 9820 Phenolic is a single stage special purpose molding compound. It is especially designed for applications requiring strong electrolytic corrosion resistance with good electric insulation property and heat/flame resistance. Typical applications include coil bobbins and switches.  
JIS Type EG-R

General Information			
Features	Electrically Insulating		
	Flame Retardant		
	Good Corrosion Resistance		
	High Heat Resistance		
Uses	Bobbins		
	Electrical Parts		
	Switches		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	JIS K6911
Apparent Density	1.03	g/cm <sup>3</sup>	JIS K6911
Molding Shrinkage - Flow (Transfer Molded)	0.93	%	JIS K6911
Water Absorption (24 hr)	0.45	%	JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength	123	MPa	JIS K6911
Compressive Strength	225	MPa	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.6	kJ/m <sup>2</sup>	JIS K6911
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	JIS K6911
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>	11	kV/mm	JIS K6911
Insulation Resistance			JIS K6911
-- <sup>2</sup>	1.0E+12	ohms	
-- <sup>3</sup>	1.0E+11	ohms	
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.430 mm)	V-0	UL 94
NOTE		
1.	60 V/sec	
2.	Before Boiling	
3.	After Boiling	

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#### Recommended distributors for this material

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