

SumiDurez PM 9630

Phenolic

SumiDurez Singapore Pte Ltd

Message:

PM 9630 Phenolic is a single stage glass fiber, and mineral filled special purpose molding compound. It is especially designed for applications requiring high strength and dimensional stability with excellent electric insulation property and good heat resistance and machine ability. Typical applications include coil bobbins, switches and brush holders.
JIS Type HM-R

General Information			
Filler / Reinforcement	Glass Fabric		
Features	Electrically Insulating		
	Good Dimensional Stability		
	High Heat Resistance		
	High Strength		
Uses	Bobbins		
	Electrical Parts		
	Switches		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.82	g/cm ³	JIS K6911
Apparent Density	0.41	g/cm ³	JIS K6911
Molding Shrinkage - Flow (Transfer Molded)	0.40	%	JIS K6911
Water Absorption (24 hr)	0.20	%	JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Flexural Strength	186	MPa	JIS K6911
Compressive Strength	274	MPa	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.8	kJ/m ²	JIS K6911
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	JIS K6911
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	13	kV/mm	JIS K6911
Insulation Resistance			JIS K6911
-- ²	1.0E+12	ohms	
-- ³	1.0E+11	ohms	

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.400 mm)	V-0		UL 94
NOTE			
1.	60 V/sec		
2.	Before Boiling		
3.	After Boiling		

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