

# Sumitomo Phenolic FM 21386

Phenolic  
SBHPP

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## Technical Data

### Product Description

FM 21386 is a single stage phenolic molding compound reinforced with synthetic fiber in pellet form.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">SBHPP</a>
Availability	• North America
Filler / Reinforcement	• Filler
Agency Ratings	• EC 1907/2006 (REACH) • EU 2006/122/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Compression Molding • Injection Molding • Resin Transfer Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.25	1.25 g/cm <sup>3</sup>	ASTM D792
Apparent (Bulk) Density	0.50 g/cm <sup>3</sup>	0.50 g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.012 in/in	1.2 %	ASTM D955
Water Absorption (24 hr)	0.15 %	0.15 %	ASTM D570
Water Absorption - 48 hr	0.50 %	0.50 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength	5950 psi	41.0 MPa	ASTM D638
Flexural Modulus	725000 psi	5000 MPa	ASTM D790
Flexural Strength	8990 psi	62.0 MPa	ASTM D790
Compressive Strength	24900 psi	172 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	0.60 ft·lb/in	32 J/m	ASTM D256A
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	293 °F	145 °C	ASTM D648A
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength <sup>3</sup>			ASTM D149
Method A (Short-Time)	350 V/mil	14 kV/mm	
Method B (Step-by-Step)	280 V/mil	11 kV/mm	
Dielectric Constant <sup>4</sup> (1 MHz)	4.80	4.80	ASTM D150
Dissipation Factor <sup>4</sup> (1 MHz)	0.020	0.020	ASTM D150

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> Dry, 60 Hz

<sup>4</sup> Wet



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### Where to Buy

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#### Supplier

**SBHPP**

Tokyo, Tokyo Japan

**Telephone:** +81-3-5462-4118

**Web:** <http://www.sbhpp.com/>

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#### Distributor

Please contact the supplier to find a distributor for Sumitomo Phenolic FM 21386

