

Sumikon® FM-PF651

Polyamide 6

Sumitomo Bakelite Co., Ltd.

Message:

This molding compound can be used as a substitute for metal parts which require force of inertia

General Information			
Filler / Reinforcement	Metal		
Uses	Metal substitution		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	6.48	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.40	%	ASTM D955
Transverse flow	0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	95.0	MPa	ASTM D638
Tensile Elongation (Yield)	0.30	%	ASTM D638
Flexural Modulus	13000	MPa	ASTM D790
Flexural Strength (Yield)	150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	155	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+8	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	3.0	hr	
Mold Temperature	80.0 - 120	°C	
Injection instructions			

Cylinder temperature: 270 to 320°C

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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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