

Sumikon® FM-E105D

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	4.99	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)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	40.0	MPa	ASTM D638
Tensile Elongation (Yield)	0.30	%	ASTM D638
Flexural Modulus	15000	MPa	ASTM D790
Flexural Strength (Yield)	66.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	165	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0	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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