

FUDOWLITE® F5636F

Phenolic

Fudow Co., Ltd.

Message:

Examples of application

Automobile parts (Electrical components etc.)

Heat-resistant, flame-resistant electrical parts

General Information			
UL YellowCard	E46770-237173		
Features	Good Heat Resistance		
	Flame retardancy		
Uses	Electrical components		
	Automotive Electronics		
	Application in Automobile Field		

Physical	Nominal Value	Unit	Test Method
Density	1.80 - 1.86	g/cm ³	JIS K7112
Apparent Density	3.50	g/cm ³	
Molding Shrinkage	0.10 - 0.30	%	JIS K6911
Water Absorption (23°C, 24 hr)	0.10 - 0.15	%	JIS K6911

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	110		JIS K6911

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	69.0 - 88.0	MPa	JIS K6911
Flexural Modulus	12700 - 14700	MPa	JIS K7171
Flexural Stress	118 - 137	MPa	JIS K7171
Compressive Stress	196 - 216	MPa	JIS K6911

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.4 - 7.4	kJ/m ²	JIS K7111

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature	> 280	°C	JIS K7191-1
Insulation Resistance			JIS K6911
	after boiling	1.0E+8 - 1.0E+9	ohms
	at ordinary state	1.0E+8 - 1.0E+9	ohms
Free Ammonia		%	JIS K7230

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	3.0 - 5.0	kV/mm	JIS K6911

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.48 mm)	V-0		UL 94

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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

