

FUDOWLITE® FC4420

Phenolic

Fudow Co., Ltd.

Message:

Examples of application

High-strength mechanical parts

Heavy electrical equipment parts

Automobile equipment parts

Electrical equipment structural parts

Weaving equipment parts

Ship components

Sealed equipment parts

General Information			
Features	High strength		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Density	1.34 - 1.38	g/cm ³	JIS K7112
Molding Shrinkage	0.90 - 1.2	%	JIS K6911
Water Absorption (23°C, 24 hr)	0.20 - 0.30	%	JIS K6911
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	108		JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	59.0 - 69.0	MPa	JIS K6911
Flexural Modulus	6860 - 7840	MPa	JIS K7171
Flexural Stress	69.0 - 88.0	MPa	JIS K7171
Compressive Stress	196 - 216	MPa	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.9 - 6.9	kJ/m ²	JIS K7111
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature	160 - 170	°C	JIS K7191-1
Insulation Resistance			JIS K6911
	after boiling	1.0E+9 - 1.0E+10	ohms
	at ordinary state	1.0E+11 - 1.0E+12	ohms
Free Ammonia		%	JIS K7230
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	10 - 12	kV/mm	JIS K6911

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