

Cosmic DAP K66/6230F

Diallyl Phthalate

Cosmic Plastics, Inc.

Message:

DESCRIPTION

Cosmic K66 / 6230F is a long glass fiber filled, flame retardant, general purpose diallyl iso-phthalate molding compound which is supplied in a flake form. It can be preformed and molds easily in standard compression or transfer equipment. It has passed NASA outgassing tests.

FEATURES

It has excellent mechanical and electrical properties with a high dielectric strength and low dielectric constant. It has superior heat resistance and excellent machining qualities.

APPLICATIONS

The high strength of this material makes it ideal for switches, terminals, housings, structural parts and insulators.

General Information	
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Filler / Reinforcement	Long Glass Fiber
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Features	Flame Retardant
	General Purpose
	Good Electrical Properties
	Good Moldability
	High Heat Resistance
	High Strength
	Isophthalic
	Machinable

Uses	General Purpose
	Housings
	Insulation
	Structural Parts
	Switches

Agency Ratings	ASTM D 5948, Type GII-30F
	MIL M-14, Type GII-30F

Forms	Flakes
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Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit
Specific Gravity	1.82	g/cm ³
Bulk Factor	6.0	
Molding Shrinkage - Flow	0.10 to 0.40	%
Dimensional Stability	< 0.010	%

Water Absorption ¹ (Equilibrium, 50°C)	0.25	%	
Mechanical	Nominal Value	Unit	
Tensile Strength	41.4 to 68.9	MPa	
Flexural Strength	89.6 to 117	MPa	
Compressive Strength	165 to 207	MPa	
Impact	Nominal Value	Unit	
Notched Izod Impact	160 to 320	J/m	
Thermal	Nominal Value	Unit	
CLTE - Flow (-40 to 100°C)	2.4E-5	cm/cm/°C	
Heat Distortion	260	°C	
Dielectric Breakdown			
Dry	64000	V	
Wet	60000	V	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
-- ²	5.0E+10	ohms	
-- ³	> 1.0E+16	ohms	
Volume Resistivity			
-- ⁴	3.0E+10	ohms · cm	
-- ⁵	> 1.0E+16	ohms · cm	
Dielectric Strength ⁶			
Dry	19	kV/mm	
Wet	16	kV/mm	
Dielectric Constant			
1 kHz ⁷	4.10		
1 kHz ⁸	4.00		
1 MHz ⁹	3.90		
1 MHz ¹⁰	3.80		
Dissipation Factor			
1 kHz ¹¹	9.0E-3		
1 kHz ¹²	8.0E-3		
1 MHz ¹³	0.013		
1 MHz ¹⁴	0.012		
Arc Resistance	180	sec	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	135 to 170	°C	
Injection Pressure	3.45 to 55.2	MPa	
NOTE			
1.	48 hrs		
2.	30 days @ 100% RH @ 70°C		

3.	As Is
4.	30 days @ 100% RH @ 70°C
5.	As Is
6.	Method B (Step-by-Step)
7.	Wet
8.	Dry
9.	Wet
10.	Dry
11.	Wet
12.	Dry
13.	Wet
14.	Dry

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