

Cosmic DAP K61/6230

Diallyl Phthalate
Cosmic Plastics, Inc.

Message:

DESCRIPTION
Cosmic K61 / 6230 is a long glass fiber filled, 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.

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. K61 / 6230 has a shelf life of two years at room temperature with no reduction in performance.

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

General Information		
Filler / Reinforcement	Long Glass Fiber	
Features	General Purpose	
	Good Electrical Properties	
	Good Moldability	
	High Heat Resistance	
	High Strength	
	Isophthalic	
Uses	Machinable	
	General Purpose	
	Housings	
	Insulation	
	Structural Parts	
	Switches	
Agency Ratings	ASTM D 5948, Type GDI-30	
	ASTM D 5948, Type GII-30	
	MIL M-14, Type GDI-30	
	MIL M-14, Type GII-30	
Forms	Flakes	
Processing Method	Compression Molding	
	Resin Transfer Molding	
Physical	Nominal Value	Unit
Specific Gravity	1.72	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
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	16	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
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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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

