

Cosmic DAP D69/6130

Diallyl Phthalate
Cosmic Plastics, Inc.

Message:

DESCRIPTION
Cosmic D69 / 6130 is a long glass fiber filled, general purpose diallyl ortho phthalate molding compound which is supplied in a flake form. It can be easily molded in compression or transfer equipment and can be readily preformed for ease in handling. It can be stored at room temperature for two years without reducing performance.

FEATURES
D69 / 6130 combines the advantages of high impact strength, high insulation resistance, excellent compressive and flexural strength, and easy moldability.

APPLICATIONS
Structural parts, housings, terminals and insulators, or other applications requiring strength.

General Information	
Filler / Reinforcement	Long Glass Fiber
Features	General Purpose
	Good Compressive Strength
	Good Moldability
	High Impact Resistance
	Orthophthalic
Uses	General Purpose
	Housings
	Insulation
	Structural Parts
Agency Ratings	ASTM D 5948, Type GDI-30
	MIL M-14, Type GDI-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)	0.30	%
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	62000	V
Wet	60000	V
Water Extract Conductivity	30.0	μS/cm
Electrical	Nominal Value	Unit
Surface Resistivity		
-- ²	5.0E+10	ohms
-- ³	> 1.0E+16	ohms
Volume Resistivity		
-- ⁴	5.0E+10	ohms · cm
-- ⁵	> 1.0E+16	ohms · cm
Dielectric Strength ⁶		
Dry	16	kV/mm
Wet	14	kV/mm
Dielectric Constant		
1 kHz ⁷	4.20	
1 kHz ⁸	4.00	
1 MHz ⁹	4.10	
1 MHz ¹⁰	3.90	
Dissipation Factor		
1 kHz ¹¹	9.0E-3	
1 kHz ¹²	6.0E-3	
1 MHz ¹³	0.015	
1 MHz ¹⁴	0.013	
Arc Resistance	180	sec
Injection	Nominal Value	Unit
Processing (Melt) Temp	135 to 190	°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



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