Cosmic DAP 306

Diallyl Phthalate

Cosmic Plastics, Inc.

Message:

DESCRIPTION

Cosmic 306 is an orlon filled, general purpose diallyl ortho phthalate molding compound which is supplied in a flake form.

FEATURES

It has excellent electrical properties and is unaffected by prolonged exposure to elevated temperature and 100% humidity. It is also resistant to solvents, acids, and alkalies.

APPLICATIONS

Switches, terminals, insulators, cups, cases or other applications requiring strength and chemical or moisture resistance. Also useful for encapsulation of electrical and electronic components.

General Information			
Filler / Reinforcement	Orlon		
Features	Acid Resistant		
	Alkali Resistant		
	General Purpose		
	Good Electrical Properties		
	Good Strength		
	Moisture Resistant		
	Orthophthalic		
	Solvent Resistant		
Uses	Cups		
	Electrical/Electronic Applications		
	General Purpose		
	Insulation		
	Switches		
Agency Ratings	ASTM D 5948, Type SDI-5		
	MIL M-14, Type SDI-5		
Forms	Flakes		
Processing Method	Encapsulating		
	Injection Molding		
Physical	Nominal Value	Unit	
Specific Gravity	1.52	g/cm³	
Bulk Factor	6.0		
Molding Shrinkage - Flow	0.70 to 0.90	%	
Dimensional Stability	< 0.070	%	

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Water Absorption ¹ (Equilibrium, 50°C)	0.35	%
Mechanical	Nominal Value	Unit
Tensile Strength	24.8 to 34.5	MPa
Flexural Strength	55.2 to 86.2	MPa
Compressive Strength	124 to 207	MPa
Impact	Nominal Value	Unit
Notched Izod Impact	32 to 160	J/m
Thermal	Nominal Value	Unit
CLTE - Flow (-40 to 100°C)	4.2E-5	cm/cm/°C
Heat Distortion	260	°C
Dielectric Breakdown		
Dry	62000	V
Wet	50000	V
Electrical	Nominal Value	Unit
Surface Resistivity		
²	1.0E+10	ohms
3	> 1.0E+16	ohms
Volume Resistivity		
4	1.0E+10	ohms•cm
5	> 1.0E+16	ohms•cm
Dielectric Strength ⁶		
Dry	14	kV/mm
Wet	13	kV/mm
Dielectric Constant		
1 kHz ⁷	3.40	
1 kHz ⁸	3.20	
1 MHz ⁹	3.30	
1 MHz ¹⁰	3.10	
Dissipation Factor		
1 kHz ¹¹	0.022	
1 kHz ¹²	0.020	
1 MHz ¹³	0.015	
1 MHz ¹⁴	0.013	
Arc Resistance	125	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	
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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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