Cosmic DAP K77/6220F

Diallyl Phthalate

Cosmic Plastics, Inc.

Message:

DESCRIPTION

Cosmic K77 / 6220F is a short glass fiber filled, flame retardant premium diallyl iso-phthalate molding compound which is supplied in a granular form. It pours easily, can be preformed, and molds easily in standard compression, transfer or injection equipment. FEATURES

K77 / 6220F has good impact strength, excellent electrical properties and very high heat service properties.

APPLICATIONS

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

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
	Good Electrical Properties		
	Good Impact Resistance		
	Good Moldability		
	High Heat Resistance		
	High Strength		
	Isophthalic		
Uses	Housings		
	Insulation		
	Structural Parts		
	Switches		
Agency Ratings	ASTM D 5948, Type SDG-F		
	ASTM D 5948, Type SIG-F		
	MIL M-14, Type SDG-F		
	MIL M-14, Type SIG-F		
Forms	Granules		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	
Specific Gravity	1.78	g/cm³	
Bulk Factor	2.5		
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 103	MPa	
Compressive Strength	165 to 179	MPa	
Impact	Nominal Value	Unit	
Notched Izod Impact	27 to 67	J/m	
Thermal	Nominal Value	Unit	
CLTE - Flow (-40 to 100°C)	1.5E-5	cm/cm/°C	
Heat Distortion	260	°C	
Dielectric Breakdown	200		
	64000	V	
Dry			
Wet	60000	V	Test Mathead
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
	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	16	kV/mm	
Wet	16	kV/mm	
Dielectric Constant			
1 kHz ⁷	4.30		
1 kHz ⁸	4.20		
1 MHz ⁹	4.20		
1 MHz ¹⁰	3.90		
Dissipation Factor			
1 kHz ¹¹	0.010		
1 kHz ¹²	7.0E-3		
1 MHz ¹³	0.015		
1 MHz ¹⁴	0.014		
Arc Resistance	180	sec	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 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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