

Cosmic DAP K43/6260

Diallyl Phthalate
Cosmic Plastics, Inc.

Message:

DESCRIPTION
Cosmic K43 / 6260 is a mineral filled, general purpose 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
K43 / 6260 has ultra high heat resistance, exceptionally high arc resistance and is easy to mold around inserts.

APPLICATIONS
Used for high heat and / or high humidity environments. This material makes is ideal for switches, terminals, housings, cups, cases and insulators. Also used for encapsulation of electrical and electronic components.

General Information		
Filler / Reinforcement	Mineral	
Features	Arc Resistant	
	General Purpose	
	Good Moldability	
	High Heat Resistance	
	Humidity Resistant	
	Isophthalic	
Uses	Cups	
	Electrical/Electronic Applications	
	General Purpose	
	Housings	
	Insulation	
	Switches	
Agency Ratings	ASTM D 5948, Type MDG 2	
	ASTM D 5948, Type MIG 3	
	MIL M-14, Type MDG 2	
	MIL M-14, Type MIG 3	
Forms	Granules	
Processing Method	Compression Molding	
	Encapsulating	
	Injection Molding	
	Resin Transfer Molding	
Physical	Nominal Value	Unit
Specific Gravity	1.80	g/cm ³

Bulk Factor	2.3	
Molding Shrinkage - Flow	0.30 to 0.70	%
Dimensional Stability	< 0.080	%
Water Absorption ¹ (Equilibrium, 50°C)	0.40	%
Mechanical	Nominal Value	Unit
Tensile Strength	31.0 to 41.4	MPa
Flexural Strength	68.9 to 89.6	MPa
Compressive Strength	138 to 221	MPa
Impact	Nominal Value	Unit
Notched Izod Impact	19 to 27	J/m
Thermal	Nominal Value	Unit
CLTE - Flow (-40 to 100°C)	4.6E-5	cm/cm/°C
Heat Distortion	260	°C
Dielectric Breakdown		
Dry	55000	V
Wet	48000	V
Electrical	Nominal Value	Unit
Surface Resistivity		
-- ²	1.0E+10	ohms
-- ³	> 1.0E+16	ohms
Volume Resistivity		
-- ⁴	6.0E+9	ohms · cm
-- ⁵	> 1.0E+16	ohms · cm
Dielectric Strength ⁶		
Dry	16	kV/mm
Wet	14	kV/mm
Dielectric Constant		
1 kHz ⁷	4.70	
1 kHz ⁸	4.60	
1 MHz ⁹	4.00	
Dissipation Factor		
1 kHz ¹⁰	0.043	
1 kHz ¹¹	0.035	
1 MHz ¹²	0.039	
1 MHz ¹³	0.031	
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.	Wet
11.	Dry
12.	Wet
13.	Dry

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