

Cosmic Alkyd 3D94

Alkyd
Cosmic Plastics, Inc.

Message:

DESCRIPTION
Cosmic 3D94 is a mineral filled, polyester molding compound which is supplied in a sheet form. It molds easily in standard compression or transfer equipment and has a shelf life of six months when stored at 5°C or below.

FEATURES
3D94 is available in green color and has a flow range of 17 to 35 inches.

APPLICATIONS
Used in inductors, capacitors, resistors and resistor networks.

General Information		
Filler / Reinforcement	Mineral	
Features	Good Moldability	
Uses	Electrical Parts	
Appearance	Green	
Forms	Sheet	
Processing Method	Compression Molding	
	Resin Transfer Molding	

Physical	Nominal Value	Unit
Specific Gravity	1.89	g/cm ³
Molding Shrinkage - Flow	0.10 to 0.80	%
Dimensional Stability	< 0.040	%
Water Absorption ¹ (Equilibrium, 50°C)	0.40	%

Mechanical	Nominal Value	Unit
Tensile Strength	24.1 to 48.3	MPa
Flexural Strength	55.2 to 96.5	MPa
Compressive Strength	124 to 152	MPa

Impact	Nominal Value	Unit
Notched Izod Impact	16 to 27	J/m

Thermal	Nominal Value	Unit
Heat Distortion	205	°C

Dielectric Breakdown		
Dry	55000	V
Wet	40000	V

Electrical	Nominal Value	Unit
Dielectric Strength ²		
Dry	16	kV/mm
Wet	14	kV/mm
Dielectric Constant		

1 kHz ³	6.00	
1 kHz ⁴	5.50	
1 MHz ⁵	5.50	
1 MHz ⁶	5.60	
Dissipation Factor		
1 kHz ⁷	0.050	
1 kHz ⁸	0.040	
1 MHz ⁹	0.030	
1 MHz ¹⁰	0.025	
Arc Resistance	140	sec
Injection	Nominal Value	Unit
Processing (Melt) Temp	130 to 170	°C
Injection Pressure	1.72 to 55.2	MPa
NOTE		
1.	48 hrs	
2.	Method B (Step-by-Step)	
3.	Wet	
4.	Dry	
5.	Wet	
6.	Dry	
7.	Wet	
8.	Dry	
9.	Wet	
10.	Dry	

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WECHAT