



Registered To ISO 9001:2008 Ref. No. 10000711

TECHNICAL DATA SHEET

K66 / 6230F DAIP

SPECIFICATION

DATA

- DESCRIPTION
 Cosmic K66 / 6230F is a long-glass fiber filled, flame retardant, general purpose diallyl iso-phthalate molding compound which is supplied in a flake form. It can be preformed and molds easily in standard compression or transfer equipment. It has passed NASA outgassing tests.

 FEATURES
 It has excellent mechanical and electrical properties with a high dielectric strength and low dielectric constant. It has
 - TURES It has excellent mechanical and electrical properties with a high dielectric strength and low dielectric constant. It has superior heat resistance and excellent machining qualities.

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

RECOMMENDED PROCESSING CONDITIONS

ELECTRICAL PROPERTIES

MOLDING INFORMATION	SPECIFICATION	DATA
Specific Gravity		1.82
Bulk Factor		6.0
Molding Pressure	psi	500 - 8,000
Molding Temperature	°C	135 - 170
Mold Shrinkage	in / in	.001004

MOISTURE PROPERTIES	SPECIFICATION	DATA
Water Absorption, %	48 hrs @ 50 °C	0.25

MECHANICAL PROPERTIES	SPECIFICATION	DATA
Impact Strength	Izod notched, ft-Ib/inch	3.0 - 6.0
Flexural Strength	psi	13 – 17,000
Compressive Strength	psi	24 - 30,000
Tensile Strength	psi	6 – 10,000

Arc Resistance	seconds	180
Dielectric Strength,	volts/mil (Dry)	475
(Kv step-by-step)	volts/mil (Wet)	400
Dielectric Breakdown	Kv step-by-step (Dry)	64
	Kv step-by-step (Wet)	60
Dielectric Constant	1 KHz / 1 MHz (Dry)	4.0 / 3.8
	1 KHz / 1 MHz (Wet)	4.1 / 3.9
Dissipation Factor	1 KHz / 1 MHz (Dry)	.008 / .012
	1 KHz / 1 MHz (Wet)	.009 / .013
Volume Resistance, megaohms	As is	>10 ¹⁰
	30 days @ 100% RH @70 ∘C	30,000
Surface Resistance, megaohms	As is	>10 ¹⁰
	30 days @ 100% RH @70 ℃	50,000

THERMAL PROPERTIES	SPECIFICATION	DATA
Thermal Expansion, (-40 °C to 100 °C)	10 ⁻⁵ / ⁰C	2.4
Heat Distortion Temp, (°C)	18.6 kg/cm ²	260
Dimensional Stability	% Max.	0.01

CERTIFICATIONS	SPECIFICATION	DATA
ASTM D-5948-05; (MIL-M-14)	Туре	GII-30F
Flammability	UL-94, 1/8 inch	V-0

Technical Data Sheets are offered For Reference Only, and are not to be considered as specifications. All tests were performed at room temperature (22 °C) unless otherwise stated, under carefully controlled conditions using transfer molded specimens. Since actual performance is determined by the molding techniques applied, as well as part size and shape, it is recommended that customers conduct their own tests to determine product suitability for their specific application. Cosmic Plastics, Inc. makes no warranties of merchantability, or any expressed or implied guarantee or representation of fitness or suitability for any application.

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