CPIC FIBERGLASS

HL-GLASS

HIGH PERFORMANCE
LOW DIELECTRIC FIBERGLASS

HL-Glass is a low dielectric fiberglass. It has two characteristics: low dielectric constant (Dk) and low dielectric loss factor (Df), which can be widely used in electromagnetic wave field and high frequency electronic circuit field. HL-Glass uses a new glass formula, and it is different from the traditional fiber glass products by using the all-electric-melting furnace technology which is the world leading level.

Applications :

- Mobile phone
- Vehicle information and communication system
- Electronic toll system (ETC)
- Radar cover (including aircraft, Ships, and ground radar)
- Military antenna (command vehicles, Armored vehicles)
- Base station antenna radome, etc

Specification :

Property	Test Method	E-glass	HL-glass
Density (g/cm^3)	ASTM D1505	2.59~2.63	2.28-2.32
Dielectric constant ε	ASTM D150 1MHz	6.6	4.2-4.8
Dissipation Factor tan δ	ASTM D150 1MHz	0.007	<0.001
Coefficent of Thermal Expansion(×10^{-6}/℃)	ASTM D696	5.5	<3.5
Refractive Index (%)	ASTM C1648	1.54	1.47




Available Products :

Chopped Strand

Product Code	Filament Diameter(μm)	Polymers	Product Characteristics
ECS301HP-3-K/HL	13	PA	Excellent derives and well manufacturing process, excellent mechanical properties.
ECS303N-3-K/HL	13	PBT	
ECS309-3-K/HL	13	PPS	

Electronic Yarn

Type (t.p.m)	Inch-unit (t.p.i)	Sizing type	TEX	Length	Net weight
HL 7 20.4 Z40	HL E250 1/0 1.0Z	Y5	20.4	144000	2.94
HL 5 10.2 Z36	HL D500 1/0 0.9Z	Y5	10.2	99000	1.01

Electronic fiberglass Cloth

Specification	Yarn Type		Thread Count(ends/inch)		Basic Weight (g/m^2)	Roll length (m)	Width(mm)	Finish Type
	Warp	Fill	Warp	Fill				
HL 2116	HL E250 1/0 1.0Z	HL E250 1/0 1.0Z	60±2	58±2	98±2	> 2000	1270	Epoxy Resin Compatible Silane
HL 1080	HL D500 1/0 0.9Z	HL D500 1/0 0.9Z	60±2	47±2	45±2	> 2000	1270	Epoxy Resin Compatible Silane

www.cpicfiber.com

ISO 9001 ISO 14001 OHSAS 18001

CHONGQING POLYCOMP INTERNATIONAL CORP.
Address: Jianqiao Industrial Park B, Dadukou District, Chongqing , China
Postcode: 400082
(Sales & Marketing)Tel: +86-23-68157576
E-mail: info@cpicfiber.com