Krefine ESD Control Materials

The surface resistance is easily controlled at the specific levels required for ESD control materials by use of Krefine's special carbon technology. Krefine stock shapes provide consistent, repeatable surface and volume ESD values regardless of the thickness or measurement point on the stock shape.

Grade	EKH-SS07	EKH-SS09	EKH-SS10	EKH-SS11
Base Polymer		PEEK		
Surface Resistance	10^{6-8} ohms	10^{7-9} ohms	10^{9-10} ohms	10^{10-11} ohms
Typical Applications	Hard Disk Drive	Wafer Handling	Burn-in & Test Sockets	

Grade	EKR-S120	EKR-S130	ESH-SS07	ESH-SS11
Base Polymer	PEEK		PES	
Surface Resistance	10^{13} ohms	10^{12} ohms	10^{6-8} ohms	10^{10-11} ohms
Typical Applications	Test Sockets for High Frequency		Hard Disk Drive, Wafer Handling	Burn-in & Test Sockets

Grade	EIH-SSC	EIH-SS11	CDH-SS08	BIH-SS07
Base Polymer		PEI	PPS	PBI
Surface Resistance	10^{6} ohms	10^{10-11} ohms	10^{7-9} ohms	10^{6-8} ohms
Typical Applications	Hard Disk Drive, Wafer Handling	Burn-in & Test Sockets	Hard Disk Drive, Wafer Handling	

Krefine has been developed with Kureha's unique carbon materials and original compounding technology. Krefine is able to overcome the problems associated with conventional Electrical Conductive Polymer Composites in the ESD sensitive environments and other fields.

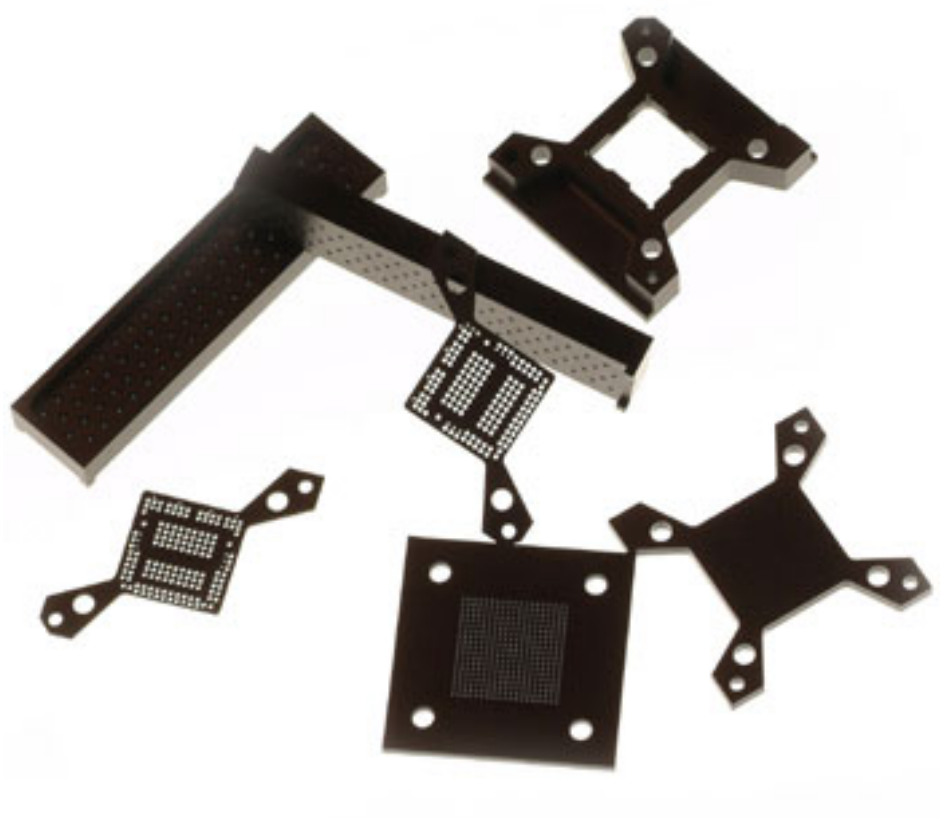
Key Features

• Homogenous surface and volume resistivity.
• Ability to control respective resistivities within 10 to the first power in the range of 10E6-10E12 ohms/sq
• Low metal contamination.
• Low out-gassing

Range of ESD Resistance (Surface & Volume)

- Krefine SS11 series : 10^{10-12} ohm
- Krefine SS09 series : 10^{8-10} ohm
- Krefine SS07 series : 10^{6-8} ohm

Machined Parts Samples For ESD Application



Application

Wafer Carriers
FOUP
IC Test Socket
Burn-In Socket
Slider Tray
HDD related parts
Liquid crystal display cassettes
Liquid crystal display related parts
Storage trays and bins
Chip Carriers
Spin Chuck
IC & HGA trays

Base Polymer

PEEK (Polyetheretherketone)
PES (Polyethersulfone)
PEI (Polyetherimide)
LCP (Liquid crystalline polymers)
PPE (Polyphenylene ether)
PBT (Polybutylene terephthalate)
PC (Polycarbonate)
POM (Polyacetal)
PVDF (Polyvinylidene fluoride)
Others