



# KREFINE® ESD PEEK

Static Dissipative Reinforced Polyetheretherketone / Static Dissipative Peek



## PRODUCT CAPABILITIES:

STOCK SHAPES  
· Sheet : 10, 12 & 20mm

## ADVANTAGES:

- Low Out-Gassing
- Homogenous Surface & Volume Resistivity
- Dimensionally stable
- Ability to Control Respective Resistivities Within 10 to The First Power In The Range of 10e6 – 10e12

## PRODUCT COLORS:

● Black

## APPLICATIONS INCLUDE:

- Sockets · Nests
- Contactors For Test Equipment
- Electronic Device Handling Components

## KUREHA CHEMICAL INDUSTRY CO, LTD

GENERAL PROPERTIES	ASTM or UL Test	EKH-SS07 Typical Values	EKH-SS09 Typical Values	EKH-SS11 Typical Values
<b>PHYSICAL</b>				
Density (g/cm <sup>3</sup> )	D792	1.33	1.31	1.31
Water Absorption, 24 hrs (%)	D570	0.40	0.40	0.40
<b>MECHANICAL</b>				
Tensile Strength (MPa)	D638	140	135	110
Tensile Elongation (%)	D638	2.5	3.0	3.5
Flexural Strength (MPa)	D790	200	190	170
Flexural Modulus (MPa)	D790	10,000	8,000	6,000
Compressive Strength (MPa)	D695	180	172	155
Compressive Modulus (MPa)	D695	9,000	7,500	5,820
Hardness, Rockwell (M scale)	D785	125	125	125
IZOD Notched Impact (J/m)	D256	30	30	30
<b>THERMAL</b>				
Coeff. of Linear Thermal Expansion 30°C to 140°C (x10 <sup>-5</sup> /°C)	D696	1.5	1.5	1.5
Heat Deflection Temp (°F / °C) at 1.82 MPa	D648	581 / 305	581 / 305	536 / 280
Glass Transition Temp (°F / °C)	D3418	289 / 143	289 / 143	289 / 143
Crystal Melting Temp (°F / °C)	D3418	644 / 340	644 / 340	644 / 340
Continuous Service Temp (°F / °C)	KCI method	500 / 260	500 / 260	500 / 260
Flammability Rating	UL94	V-0	V-0	V-0
<b>ELECTRICAL</b>				
Dielectric Strength (kV/mm)	D149	-	2	5
Surface Resistance (ohms)	ESD11.11	10 <sup>6</sup> – 10 <sup>7</sup>	10 <sup>7</sup> – 10 <sup>9</sup>	10 <sup>9</sup> – 10 <sup>11</sup>
Dielectric Constant at 1 MHz	D150	7.9	6.6	5.3
Dielectric Loss Tangent at 1 MHz	D150	0.22	0.21	1.16

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.

## Pactumax International Pte Ltd

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