



MITSUBISHI CHEMICAL ADVANCED MATERIALS

PRODUCT CAPABILITIES:

- Sheet : 0.08" to 1"

ADVANTAGES:

- PEEK With Ceramic Fillers To Significantly Improve Its Mechanical Properties.
- Excellent Dimensional Stability
- Good Impact Strength, Stiffness And Minimum Levels Of Creep.
- Better Impact Resistance And Toughness Compared With Ceramics.
- Excellent Machinability For Tighter Pitch And Fine Diameter Holes.

PRODUCT COLORS:

- White
- Grey

APPLICATIONS INCLUDE:

- Test Sockets
- Switches
- Connectors

GENERAL PROPERTIES	ASTM or UL Test	KYRON 2204 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.51
Water Absorption, 24 hrs (%)	D570	0.37
MECHANICAL		
Tensile Strength (psi)	D638	15,500
Tensile Elongation at Break (%)	D638	21
Flexural Strength (psi)	D790	26,500
Flexural Modulus (psi)	D790	750,000
IZOD Notched Impact (ft-lb/in)	D256	1.0
IZOD Un-Notched Impact (ft-lb/in)	D256	No Break
THERMAL		
Coeff. of Thermal Expansion(x 10-5 in./in./°F)	D696	2.0
Heat Deflection Temp (°F / °C) @ 264 psi	D648	599 / 315
Melting Point (°F / °C)	D3418	649 / 343
Tg Glass Transition Temp (°F / °C)	D3418	289 / 143
Thermal Conductivity (BTU-in/ft ² -hr-°F)	C177	2.40
Flammability Rating	UL94	-
ELECTRICAL		
Dielectric Strength (V/mil) short time, (t) 1/8"	D149	400
Dielectric Constant at 1 KHz	D150	1, Dry 3.5
Dissipation Factor at 1 KHz	D150	1, Dry <0.005
Surface Resistivity (ohm/sq)	D257	10 ¹⁴
Volume Resistivity (ohm/sq)	D257	10 ¹⁴

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.