



# MONOCAST® MC501CD R2/R6/R9/R11

Conductive / Dissipative / Resistive “MC” Nylon



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**MITSUBISHI CHEMICAL  
ADVANCED MATERIALS**

## PRODUCT CAPABILITIES:

- Rod : 10mm - 50mm
- Sheet : 5mm - 50mm

## ADVANTAGES:

- High Mechanical Strength
- Excellent Wear Resistance
- Chemical Resistance

## PRODUCT COLORS:

- Black

## APPLICATIONS INCLUDE:

- Disk Drive Assembly Fixtures
- Semiconductor/Electronic Components
- Telecommunication Hardware
- Automotive Equipment

GENERAL PROPERTIES	ASTM or UL Test	MC 501CD R2 Typical Values	MC 501CD R6 Typical Values	MC 501CD R9 Typical Values	MC 500AS R11 Typical Values
<b>PHYSICAL</b>					
Density	D792	1.2	1.23	1.19	1.15
<b>MECHANICAL</b>					
Tensile Strength (MPa)	D638	69	75	88	52
Tensile Strain (Elongation) at break (%)	D638	10	7	12	162
Flexural Strength (MPa)	D790	118	118	132	45
Flexural Modulus of Elasticity (MPa)	D790	4,110	4,020	4,160	1,216
IZOD Impact Notched (J/m)	D256	35	35	35	180
Compressive Stress (5% Nominal Strain) (MPa)	D695	98	93	106	33
Compressive Modulus of Elasticity (MPa)	D695	4,210	4,020	4,438	1,314
Rockwell Hardness (R Scale)	D785	R 119	R 117	R 119	R 93
<b>THERMAL</b>					
Heat Deflection Temp (1.82 MPa) (°F / °C)	D648	392 / 200	392 / 200	392 / 200	167/75
<b>ELECTRICAL</b>					
Surface Resistivity (Ω)	ANSI/ESD STM 11.11	10 <sup>4</sup> - 10 <sup>6</sup>	10 <sup>5</sup> - 10 <sup>7</sup>	10 <sup>6</sup> - 10 <sup>9</sup>	10 <sup>10</sup> - 10 <sup>12</sup>

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.

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