



MONOCAST® MC501CD R2 / R6 / R9 / R11

Conductive / Dissipative / Resistive "MC" Nylon



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

** MONOCAST® is the registered trademark of

**MITSUBISHI CHEMICAL
ADVANCED MATERIALS**

GENERAL PROPERTIES	ASTM or UL Test	MC 501CD R2 Typical Values	MC 501CD R6 Typical Values	MC 501CD R9 Typical Values	MONOCAST® MC 500AS R11 Typical Values
PHYSICAL					
Specific Gravity (g/cm ³)	D792	1.2	1.23	1.19	1.15
MECHANICAL					
Tensile Strength (kgf/cm ²)	D638	700	760	897	530
Tensile Elongation (%)	D638	10	7	12	162
Flexural Strength (kgf/cm ²)	D790	1,200	1,200	1,346	460
Flexural Modulus (10 ³ kgf/cm ²)	D790	42.9	41	42.4	12.4
IZOD Notched Impact (kgf x cm/2.54cm)	D256	9	9	9	46.6
Compressive Strength (10 ³ kgf/cm ²)	D695	1	0.95	1.081	0.34
Compressive Modulus (10 ³ kgf/cm ²)	D695	42.9	41	45.3	13.4
Hardness, Rockwell	D785	R 119	R 117	R 119	R 93
THERMAL					
Heat Deflection Temp °F (°C)	D648	392 / 200	392 / 200	392 / 200	167 / 75
ELECTRICAL					
Volume Resistivity (Ω.cm)	D257	10 ² - 10 ⁴	10 ⁶ - 10 ⁸	10 ⁸ - 10 ¹⁰	10 ¹⁰ - 10 ¹²

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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