



MONOCAST® MC501CD R2 / R6 / R9

Conductive "MC" Nylon/ ESD "MC" Nylon



** MONOCAST® is the registered trademark of

NIPPON POLYPENCO

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
PHYSICAL				
Specific Gravity (g/cm ³)	D972	1.2	1.23	1.19
MECHANICAL				
Tensile Strength (kgf/cm ²)	D638	700	760	897
Tensile Elongation (%)	D638	10	7	12
Flexural Strength (kgf/cm ²)	D790	1,200	1,200	1,346
Flexural Modulus (10 ³ kgf/cm ²)	D790	42	41	42
IZOD Notched Impact (kgf x cm/2.54cm)	D256	9	9	9
Compressive Strength (10 ³ kgf/cm ²)	D695	1	0.95	0.95
Compressive Modulus (10 ³ kgf/cm ²)	D695	43	41	42
Hardness, Rockwell	D785	R 119	R 117	R 119
THERMAL				
Heat Deflection Temp °F (°C)	D648	392 / 200	392 / 200	392 / 200
ELECTRICAL				
Surface Resistivity (ohms/sq)	D257	10 ² - 10 ⁴	10 ⁶ - 10 ⁸	10 ⁸ - 10 ¹⁰

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.