

Mitsubishi Chemical Advanced Materials Nylon 105 (ASTM Data)
Categories: Polymer; Thermoplastic; Nylon (Polyamide PA); Nylon 66 (PA66)

Material Notes: Quadrant Engineering Plastic Products is now Mitsubishi Chemical Advanced Materials.

Key Words: Extruded, UV Stabilized, Nylon 66

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	IMMERSION, 24 HRS.; ASTM D570 2
Water Absorption at Saturation	7.0 %	7.0 %	ASTM D570 2
Mechanical Properties	Metric	English	Comments
Tensile Strength	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Tensile Modulus	3.62 GPa	525 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790
Compressive Strength	93.1 MPa @ Strain 10.0 %, Temperature 22.8 °C	13500 psi @ Strain 10.0 %, Temperature 73.0 °F	ASTM D695
Compressive Modulus	3.59 GPa	520 ksi	ASTM D695
Shear Strength	75.8 MPa	11000 psi	ASTM D732
Electrical Properties	Metric	English	Comments
Dielectric Constant	3.6	3.6	ASTM D150
Dissipation Factor	0.030	0.030	1.0e+6 Hz; ASTM D150
Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.245 W/m-K	1.70 BTU-in/hr-ft ² -°F	ASTM E1530-11
Melting Point	260 °C	500 °F	1.0e+6 Hz; ASTM D3418


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