

Mitsubishi Chemical Advanced Materials Nylon 612 (ASTM Data)
Categories: Polymer; Thermoplastic; Nylon (Polyamide PA); Nylon 612 (PA612)

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

Key Words: Extruded, Unfilled Type 612 Natural

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	IMMERSION, 24 HRS.; ASTM D570 2
Water Absorption at Saturation	3.0 %	3.0 %	ASTM D570 2
Mechanical Properties	Metric	English	Comments
Tensile Strength	72.4 MPa	10500 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Tensile Modulus	2.92 GPa	424 ksi	ASTM D638
Flexural Strength	88.3 MPa	12800 psi	ASTM D638
Flexural Modulus	2.79 GPa	405 ksi	ASTM D790
Compressive Strength	82.7 MPa @ Strain 10.0 %, Temperature 22.8 °C	12000 psi @ Strain 10.0 %, Temperature 73.0 °F	ASTM D695
Compressive Modulus	1.83 GPa	265 ksi	ASTM D695
Shear Strength	55.2 MPa	8000 psi	ASTM D732
Electrical Properties	Metric	English	Comments
Dielectric Constant	3.2	3.2	ASTM D150
Thermal Properties	Metric	English	Comments
Melting Point	216 °C	420 °F	ASTM D3418



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