

Handles M Certificate

***Reinforced Polyamide (30% fiberglass):**

Electrical Properties

Dielectric Constant @1MHz 3.9-5.7

Volume Resistivity (Ohmcm) 10¹²-10¹⁵

Physical Properties

Water Absorption - in 24 hours (%) 1-5

Density (g cm⁻³) 1.4

Limit Oxygen Index (%) 22

Flammability HB

Mechanical properties

Elongation at Break (%) 5

Hardness - Rockwell M100

Tensile Modulus (GPa) 10-11

Tensile Strength (MPa) 160-210

Izod Impact Resistance (J m⁻¹) 120

Thermal Properties

Thermal Expansion Coefficient (x10⁻⁶ K⁻¹) 20-30

Thermal Conductivity at 23C (W m⁻¹ K⁻¹) 0.23

Hot Deflection Temperature - 0.45MPa (C) 257

Hot Deflection Temperature - 1.8MPa (C) 252

Maximum Use Temperature (C) 80-200

Chemical resistance

Acids - concentrates Mala

Acids - diluted Bad

Alkalis Good-Acceptable

Alcohols Good

Good-Bad Ketones

Good Fats and Oils

Halogens Bad

Halogen hydrocarbons Good-Bad

Aromatic Hydrocarbons Good

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