

Kevlar Reinforced Nylon 66

Catlog Number: CRSM-0059

• Description

High-impact PA66 composite with aramid reinforcement, offering extreme abrasion resistance and non-brittle failure for mechanical tools.

• Basic Information

Base Material: Polyamide 66

Reinforcement Type: Para-aramid Fiber

Reinforcement Volume (%): 0.2

Density (g/cm³): 1.22

Tensile Strength (MPa): 95

Tensile Modulus (MPa): 5500

Elongation at Break (%): 8.5

Flexural Strength (MPa): 145

Flexural Modulus (MPa): 4800

Heat Deflection Temp (0.45MPa): 195

Glass Transition Temp (Tg): 70

Melting Point (°C): 260

Thermal Conductivity (W/mK): 0.24

Flame Retardancy (UL94): HB

Surface Resistivity (Ω): 10¹⁴

Water Absorption (%): 0.95

Printing Temp (°C): 270-300

Bed Temp (°C): 80-110

Chamber Temp (°C): 60-90

Fan Speed (%): 20

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 0.5

Continuous Use Temp (°C): 150

Impact Strength (kJ/m²): 28

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