

Graphite-Lubricated Nylon

Catlog Number: CRSM-0037

• Description

Self-lubricating composite reinforced with graphite to reduce friction and wear in gears, bearings, and sliding mechanical assemblies.

• Basic Information

Base Material: Polyamide 6/66

Reinforcement Type: Graphite Flakes

Reinforcement Volume (%): 0.1

Density (g/cm³): 1.18

Tensile Strength (MPa): 65

Tensile Modulus (MPa): 3800

Elongation at Break (%): 15

Flexural Strength (MPa): 90

Flexural Modulus (MPa): 3400

Heat Deflection Temp (0.45MPa): 170

Glass Transition Temp (Tg): 60

Melting Point (°C): 215

Thermal Conductivity (W/mK): 0.48

Flame Retardancy (UL94): HB

Surface Resistivity (Ω): 10¹⁰

Water Absorption (%): 0.85

Printing Temp (°C): 250-280

Bed Temp (°C): 70-90

Chamber Temp (°C): 40-60

Fan Speed (%): 30

Nozzle Type: Hardened Steel

Layer Height (mm): 0.15

Shrinkage Rate (%): 0.5

Continuous Use Temp (°C): 130

Impact Strength (kJ/m²): 25

 For Research or Industrial Raw Materials, Not For Personal Medical Use!