

Glass Fiber Reinforced PET-FR

Catlog Number: CRSM-0055

• Description

Flame-retardant PET composite with glass reinforcement, ideal for electrical housings and structural components requiring V-0 safety ratings.

• Basic Information

Base Material: PET

Reinforcement Type: Micro-Glass Fiber

Reinforcement Volume (%): 0.15

Density (g/cm³): 1.48

Tensile Strength (MPa): 85

Tensile Modulus (MPa): 6200

Elongation at Break (%): 3

Flexural Strength (MPa): 135

Flexural Modulus (MPa): 5800

Heat Deflection Temp (0.45MPa): 185

Glass Transition Temp (Tg): 75

Melting Point (°C): 255

Thermal Conductivity (W/mK): 0.26

Flame Retardancy (UL94): V-0

Surface Resistivity (Ω): 10¹⁵

Water Absorption (%): 0.12

Printing Temp (°C): 275-305

Bed Temp (°C): 80-100

Chamber Temp (°C): 60-80

Fan Speed (%): 15

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 0.25

Continuous Use Temp (°C): 145

Impact Strength (kJ/m²): 22

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