

Carbon Fiber Reinforced TPV

Catlog Number: CRSM-0079

• Description

Dynamic vulcanizate composite with carbon fiber, providing high elasticity and chemical resistance for automotive seals and vibration isolators.

• Basic Information

Base Material: TPV

Reinforcement Type: Chopped Carbon Fiber

Reinforcement Volume (%): 0.1

Density (g/cm³): 1.12

Tensile Strength (MPa): 32

Tensile Modulus (MPa): 1100

Elongation at Break (%): 120

Flexural Strength (MPa): 45

Flexural Modulus (MPa): 980

Heat Deflection Temp (0.45MPa): 105

Glass Transition Temp (Tg): -45

Melting Point (°C): -

Thermal Conductivity (W/mK): 0.42

Flame Retardancy (UL94): HB

Surface Resistivity (Ω): 10⁶ - 10⁸

Water Absorption (%): 0.08

Printing Temp (°C): 235-260

Bed Temp (°C): 50-80

Chamber Temp (°C): -

Fan Speed (%): 40

Nozzle Type: Hardened Steel

Layer Height (mm): 0.2

Shrinkage Rate (%): 1.1

Continuous Use Temp (°C): 115

Impact Strength (kJ/m²): 55

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