

VICTREX® APTIV® 1102 20% mineral filled PEEK Coil

Grade: VICTREX® APTIV® 1102

Formula: PEEK

Thickness: 0.125mm

Coil Width: 610mm

Length: 2m

Structure: Semi Crystalline

Surface Finish: Matt/Matt

Colour: Grey

UOM Code: 046-236-12

SKU: 1000006526-group

Product Code: EK36-FM-000125

Material Properties for Polymers

Chemical Resistance

Element	Value
Acids - concentrated	Good-Poor
Acids - dilute	Good
Alcohols	Good
Alkalis	Good
Aromatic hydrocarbons	Good
Greases and Oils	Good
Halogenated Hydrocarbons	Good
Halogens	Good-Poor
Ketones	Good-Poor

Physical Properties

Element	Value
Radiation resistance	Good
Density(gcm ³)	1.45

Mechanical Properties

Element	Value
Elongation at break(%)	>10 (TD) - 7 (TD)
Elongation at break(%)	>100 (MD) - 6 (MD)
Elongation at break(%)	10(TD)
Elongation at break(%)	100(MD)
Tensile modulus(GPa)	4.5-5(MD)
Tensile modulus(GPa)	4.2-4.5 (TD) -
Tensile modulus(GPa)	4.2-4.5(TD)
Tensile modulus(GPa)	4.5-5.0 (MD) - Good
Tensile strength(MPa)	80 (TD) - 4.2-4.5 (TD)
Tensile strength(MPa)	100(MD)
Tensile strength(MPa)	100 (MD) - 4.5-5.0 (MD)
Tensile strength(MPa)	80(TD)
Tear strength(N mm ⁻¹)	6(MD)
Tear strength(N mm ⁻¹)	7(TD)
Tear strength(N mm ⁻¹)	7 (TD) -
Tear strength(N mm ⁻¹)	6 (MD) - 200

Electrical Properties

Element	Value
Dielectric strength(kV mm ⁻¹)	200
Volume resistivity(Ohmcm)	10 ¹²

Thermal Properties

Element	Value
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.43-0.91
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	35