

PEK Coil

Formula: PEK

Thickness: 0.05mm

Coil Width: 420mm

Length: 5m

CAS Number: 29658-26-2

UOM Code: 042-485-81

SKU: 1000005828-group

Product Code: EK35-FM-000150

Material Properties for Polymers

Physical Properties

Element	Value
Flammability	UL94 V-0
Radiation resistance	Good
Resistance to Ultra-violet	Good
Limiting oxygen index(%)	35
Water absorption - over 24 hours(%)	0.07
Density(gcm ³)	1.3

Mechanical Properties

Element	Value
Elongation at break(%)	20
Tensile modulus(GPa)	3.7
Izod impact strength(J m ²)	5
Tensile strength(MPa)	115

Thermal Properties

Element	Value
Heat-deflection temperature - 1.8MPa(C)	163
Specific heat(J K ⁻¹ kg ⁻¹)	2.2
Thermal conductivity(W m ⁻¹ K ⁻¹)	23 - 45
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.29 -

Element	Value
Thermal conductivity($W m^{-1} K^{-1}$)	23
Thermal conductivity($W m^{-1} K^{-1}$)	0.29
Coefficient of thermal expansion($\times 10^{-6} K^{-1}$)	45

Electrical Properties

Element	Value
Dielectric strength($kV mm^{-1}$)	23

Pultrusions

Element	Value
Compressive strength(MPa)	140