

Polyaramid Fabric Coil (Polyparaphenylene terephthalamide)

Formula: Polyparaphenylene terephthalamide

Thickness: 0.1mm

Coil Width: 1270mm

Length: 0.5m

Fabric Weight: 60g/m²

Weave: Plain

Warp Yarn: 22

Weft Yarn: 22

Ends x Picks/10cm: 134x134

UOM Code: 570-419-62

SKU: 1000029582-group

Product Code: AR30-FC-000120

Material Properties for Polymers

Chemical Resistance

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

Physical Properties

Element	Value
Resistance to Ultra-violet	Fair
Water absorption(%)	3.5
Water absorption - equilibrium(%)	3.5
Density(gcm ³)	1.44

Thermal Properties

Element	Value
Lower working temperature(C)	-200
Upper working temperature(C)	180-245
Specific heat(J K ⁻¹ kg ⁻¹)	1400
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.04@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	-2Along Axis

Mechanical Properties

Element	Value
Tensile modulus(GPa)	59-124
Tensile strength(MPa)	2760