

KV12

Roving series

Roving nomenclature.

Example: BCF 13-1200-KV12 Int.

BCF - basalt continuous filaments.

1st number - monofilament diameter [μm].

2nd number - linear density [tex].

KV12 – type of sizing.

Int./Ext – type of bobbins.

Int. – bobbin for internal unwinding (tubeless).

Ext. – bobbin for external unwinding.

Direct - direct roving type bobbin.

Processing.

Basalt roving of this series is mainly recommended for filament winding, pultrusion, processing into UD and multiaxial fabrics, prepregs and other products based on epoxy resins.

Product description.

Property	Description
Type of fiber	basalt
Monofilament diameter [μm]	10-17
Linear density [tex]	70-250 direct, 300-4800 assembl.
Type of sizing	silane
Sizing content (% wt)	0.5-0.7
Resin compatibility	epoxy
Moisture content (% wt)	<0.3

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Mechanical properties.

Properties in epoxy impregnated strand (ASTM D2343)	
Tensile strength, MPa	2900-3200
Tensile modulus, GPa	90-95

Tensile strength of dry fiber (ASTM D3822)	
Tensile strength, mN/tex	630-750

Applications.

High pressure vessels, CNG cylinders, boat building, wind mill blades, bridge profiles, concrete reinforcing bars.

Packaging information.

Type of bobbins.	Amount of roving [kg]
Bobbin for internal unwinding	3, 5, 9
Bobbin for external unwinding	3, 5, 8
Direct roving bobbin	3, 5, 8