

## KV42A Assembled roving series

### Roving nomenclature

*Example:* BCF 13-1200-KV42A Int.

BCF - basalt continuous filaments

13 - monofilament diameter [ $\mu\text{m}$ ]

1200 - linear density [tex]

KV42A – type of sizing

Int./Ext. – type of bobbins

Int. – bobbin for internal unwinding  
(tubeless)

Ext. – bobbin for external unwinding, wound  
on a tube with 76 mm internal diameter and  
270mm length



### Processing

Basalt roving of this series is mainly recommended for pultrusion technology and for processing into woven fabrics, UD tapes, multiaxial fabrics, prepregs and other composite products. It is compatible with polyurethane and thermoplastic (polyamide, polypropylene, polyethylene etc.) resins.

### Product description

Property	Description
Type of fiber	Basalt
Monofilament diameter [ $\mu\text{m}$ ]	10-19
Linear density [tex]	270-4800
Type of sizing	silane
Sizing content (% wt.)	$\geq 0.4$
Compatibility	Polyurethane resins, PA, PP, PE
Moisture content (% wt.)	$< 0.1$

## Mechanical properties

<b>Properties in epoxy impregnated strand (ASTM D2343)</b>	
Tensile strength, MPa for 270-900 tex over 1200 tex	3000-3200 2900-3100
Tensile modulus, GPa	86 ± 2

<b>Tensile strength of dry fiber (ASTM D3822)</b>	
Tenacity, mN/tex for 10-16 µm for 17-19 µm	≥650 ≥550

## Applications

Pultruded profiles, concrete reinforcing bars, fabrics for thermoplastic reinforcement.

## Packaging information

<b>Type of bobbins</b>	<b>Amount of roving, kg</b>
Bobbin for internal unwinding	9
Bobbin for external unwinding	4,7; 8

Roving is supplied on a 120x80 cm pallet with 4 layers, each bobbin wrapped in thermo retractable film.

On a 4-layered pallet 140 bobbins of 4,7 kg or 96 bobbins of 8 kg or 88 bobbins of 9 kg of assembled roving could be supplied.