

KV42A High performance assembled roving series

Roving nomenclature

diameter 200 mm (tubeless)

Example: HBCF 13-1200-KV42A-2 Int./200
HBCF – high performance basalt continuous fiber
13 - monofilament diameter [μm]
1200 - linear density [tex]
KV42A – type of sizing
-2 – with additional gluing compatible with epoxy and polyurethane resins
Int./200 – bobbin for internal unwinding, internal



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

HBCF roving is an assembled roving with significantly lower level of catenary. Due to reduced catenary and additional gluing, this type of assembled roving has a form of a "ribbon" which is a great advantage for many processing technologies.

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Property	Description
Type of fiber	Basalt
Monofilament diameter [μm]	13-17
Linear density [tex]	1200-4800
Type of sizing	silane
Sizing content (% wt.)	≥0.4
Resin compatibility	Polyurethane resins, PA, PP, PE
Additional gluing:	
-0	Without any additional gluing
-2	With additional gluing for epoxy and
	polyurethane resins
Type of bobbins:	
Int./200	Bobbins for internal unwinding,
	internal diameter 200 mm
Ext.	Bobbins for external unwinding, wound
	on a tube with 76 mm internal
	diameter and 270mm length
Moisture content (% wt.)	<0.1

Mechanical properties

Properties in epoxy impregnated strand (ASTM D2343)		
Tensile strength, MPa	2900-3100	
Tensile modulus, GPa	86 ± 2	

Tensile strength of dry fiber (ASTM D3822)			
Tenacity, mN/tex			
	for 13-16 μm	≥650	
	for 17 μm	≥550	

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Applications

Pultruded profiles, concrete reinforcing bars, fabrics for thermoplastics reinforcement. This roving is ideally suited for those applications where almost zero catenary is required.

Packaging information

Type of bobbins	Amount of roving, kg
Bobbin for internal unwinding, internal	10; 12
diameter 200 mm	
Bobbin for external unwinding, on a tube with	8
76 mm internal diameter	

Roving is supplied on a 120x80 cm pallet with 4 or 6 layers, each bobbin is wrapped in thermo retractable film.

On a 4-layered pallet 44 bobbins of 10-12 kg or 96 bobbins of 8 kg of assembled roving could be supplied.

On a 6-layered pallet 66 bobbins of 10-12 kg of assembled roving could be supplied.

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