

KV42

Direct roving series

Roving nomenclature

Example: BCF 13-150-KV42 direct
 BCF - basalt continuous filaments
 13 - monofilament diameter [μm]
 150 - linear density [tex]
 KV42 – type of sizing



Processing

KV42 is the newest modification of the KV12 sizing with improved performance and increased alkali resistance. Basalt roving of this series is mainly recommended for pultrusion technology and for processing into woven fabrics, UD tapes, multiaxial fabrics, prepregs and other products based on phenolic and epoxy resins.

Product description

Property	Description
Type of fiber	basalt
Monofilament diameter [μm]	11-21
Linear density [tex]	110-2200
Type of sizing	silane
Sizing content (% wt.)	≥ 0.4
Resin compatibility	Epoxy and phenolic
Moisture content (% wt.)	< 0.1

Mechanical properties

Properties in epoxy impregnated strand (ASTM D2343)	
Tensile strength, MPa	2900-3200
Tensile modulus, GPa	87 ± 2

Tensile strength of dry fiber (ASTM D3822)	
Tenacity, mN/tex	
for 11-12 μm	≥700
for 13-16 μm	≥650
for 17-19 μm	≥600
for 20-21 μm	≥550

Applications

Boat building, pultruded profiles, concrete reinforcing bars, wind mill blades, fabrics for different applications.

Packaging information

Type of bobbins	Amount of roving, kg
Direct roving bobbin, internal diameter 200 mm, height – 255 mm	
110 tex	2 - 6,5
150 - 450 tex	2 - 8
over 600 tex	2 - 12

Direct roving is supplied on a 120x80 cm pallet with 4/5/6 layers, each bobbin is wrapped in thermo retractable film.

On a 4-layered pallet 56 bobbins of 2-5 kg or 48 bobbins of 6,5-10 kg or 44 bobbins of 12 kg direct rovings could be supplied.