

KV41 Direct roving series

Roving nomenclature

Example: BCF 13-150-KV41 direct
 BCF – andesite-basalt continuous filaments
 13 - monofilament diameter [μm]
 150 - linear density [tex]
 KV41 – type of sizing



Processing

KV41 is the newest modification of the KV11 sizing with improved performance and increased alkali resistance. Andesite-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 polyester and vinyl ester resins.

Product description

Property	Description
Type of fiber	andesite-basalt
Monofilament diameter [μm]	11-23
Linear density [tex]	110-2400
Type of sizing	silane
Sizing content (% wt.)	≥ 0.4
Resin compatibility	Polyester, vinyl ester
Moisture content (% wt.)	< 0.1

Mechanical properties

Properties in epoxy impregnated strand (ASTM D2343)	
Tensile strength, MPa	2900-3200
Tensile modulus, GPa	85 ± 2

Tensile strength of dry fiber (ASTM D3822)	
Tenacity, mN/tex	
for 11-12 μm	≥800
for 13-17 μm	≥750
for 18-20 μm	≥700
for 21-23 μm	≥650

Applications

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

Packaging information

Type of bobbins	Amount of roving, kg
110 - 250 tex, internal diameter 200 mm, height – 255 mm	5 – 8
400 - 2400 tex, internal diameter 160 mm, height – 255 mm	8 – 18

Direct roving is supplied on a 120x80 cm and 120x100 cm pallets with 4/5/6 layers, each bobbin is wrapped in thermo retractable or stretch film.

On a 4-layered pallet 56 bobbins of 5 kg or 48 bobbins of 6,5-10 kg or 44 bobbins of 12-15 kg or 48 bobbins of 15-18 kg direct rovings could be supplied.