

KV15 Assembled roving series

Roving nomenclature

Example: BCF 13-1200-KV15 Int.

BCF – andesite-basalt continuous filaments

13 - monofilament diameter [μm]

1200 - linear density [tex]

KV15 – 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

Andesite-basalt roving of this series is mainly recommended for Spray-up technology with polyester and vinyl ester resins.

Product description

Property	Description
Type of fiber	andesite-basalt
Monofilament diameter [μm]	10-19
Linear density [tex]	270-4800
Type of sizing	silane
Sizing content (% wt.)	≥ 0.4
Resin compatibility	VE, polyester, epoxy, phenolic, acrylate and PVAc
Moisture content (% wt.)	< 0.1

Mechanical properties

Properties in epoxy impregnated strand (ASTM D2343)	
Tensile strength, MPa for 270-900 tex over 1200 tex	3000-3200 2900-3100
Tensile modulus, GPa	85 ± 2

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

Applications

Production of large composite parts.

Packaging information

Type of bobbins	Amount of roving, kg
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.