

KV41, KV42 Twisted yarns

Yarn nomenclature

Example : BTY11-110x2 Z 60-KV42

BTY – basalt twisted yarn

11 – monofilament diameter [μm]

110 – linear density [tex]

x2 (if available) – number of plies

S, Z – twisting direction

60 – twists per meter

KV42 – type of sizing



Processing and applications

Basalt twisted yarns are mainly recommended for further textile processing into different types of fabrics, tapes, ropes, sleeves, etc.

Product description

Property	Description
Type of fiber	Basalt
Monofilament diameter [μm]	10-13
Linear density of the single yarn [tex]	68-150
Number of plies	1-8
Twists per meter	20-100
Type of sizing	Silane
Compatibility	
KV42	epoxy and phenolic resins
KV41	polyester, vinyl ester and epoxy resins
Sizing content (% wt)	≥ 0.4
Moisture content (%wt)	< 0.5

Physico-mechanical characteristics

Property	Value
Tenacity of the twisted yarn, mN/tex:	
10 μm, 68 and 68x2 tex	>700
10 μm, other than 68 and 68x2 tex	>650
11 μm	>600
13 μm	>550
Allowance for twist per meter, %	
for 50 TPM and less	± 20
for 50 - 100 TPM	± 15

Packaging information

Type of bobbins	Amount of roving (kg)
Flange bobbins	
1-ply yarns	3-4
2-ply yarn 68x2 tex	4-6
others	5-7
samples	1-2

Type of packaging: cardboard box, 66 or 88 bobbins on the pallet