

Technical Data

Basalt fiber assembled roving consists of several single-end strands joined together without twisting on special assembling machine.



Version 5.0 9th Jul 2019

Property	Description
Monofilament diameter/um	6 to 24
Linear density/tex	200-4800
Type of sizing	Silane base
Sizing content/%	≥0.4
Resin compatibility	Polyester, vinyl ester, epoxy
Moisture content/%	≤0.2

Thermophysical properties:

Using temperature/°C	-260-650
Sintering temperature/°C	1050
Thermal conductivity/W/m.k	0.03-0.038
Strength retention after heat treatment	
20°C	100
200°C	95
400°C	82

Chemical properties - Weightlessness

3-hour boiling in 2N HCl	2.20%
3-hour boiling in 2N NaOH	6.00%
3-hour boiling in H ₂ O	0.20%

Mechanical properties:

Monofilament diameter, um	13	17
Tensile strength, MPa(in epoxy impregnated strands by GB/T20310-2006 standard)	2790	2530
Tensile modulus, Mpa(in epoxy impregnated strands by GB/T20310-2006 standard)	81.6	85.8
Elongation at break, %(in epoxy impregnated strands by GB/T20310-2006 standard)	3.41	3.05

Application:

1. Filament winding, pultrusion, processing into woven fabrics, prepregs technology
2. High pressure vessel, CNG cylinder winding
3. Basalt chopped strands
4. Reinforcing rebar
5. Fabric for sound and heat insulation
6. Reinforcing profile
7. Corrosion application

Packing information:

		Weight per pallet
Bobbin for internal unwinding	10kg	1Ton
Bobbin for external unwinding	15kg	1.2Ton
Pallet size	1.1x1.1x1.24m	

Storage condition:

1. Store in a place of shady and cool, dry and draughty.
2. Store in a place where avoiding mixing with other corrosive chemicals.
3. The storage period is 18 months.