

Technical Data Sheet

Basalt Twisted Yarn KVY10-68-Z40

Basalt continuous filament twisted yarn, particularly suited for further textile processing into different types of fabrics, tapes, ropes, sleeves,...

The first code: 10, indicates the monofilament diameter

The second code: 68, indicates the tex value of the yarn

The third code: Z40, indicates the twist direction (S or Z) and the twist per meter (20-150).

Property	Standard/Method	Unit	Value	Tolerance
Base material				
Density of unsized filament matl		kg/dm ³	2.67	± 5%
Moisture content of basaltic rock		%	0.1	± 0.05
Melting point		°C	1350	± 100
Roving				
Monofilament diameter*	ASTM D578-2000 - §26	µm	10	± 0.5
Sizing type			Silane	
Linear density range*	ISO 2060:1994	tex	68	± 5%
Number of plies			1	
Twist per meter			40	
Twist direction			Z	
Tensile strength*	ASTM D3822	cN/tex	≥70	
E-Modulus	ASTM D2343	GPa	84	± 3
Continuous temperature range		°C	-250°C to 550°C 1200°C fire barrier	
Moisture content (sized roving)*	ISO 3344:1997	wt%	<0.5	
LOI, also sizing content*	ISO 1887:1995**	wt%	0.45-0.9	
Combustibility	NF P92-503 (1995)	M0	Pass	
UV stability	ISO 105-B02		6	
Colour fastness	ISO 1005-BX12		6	

* properties are given on the "Certificate of Conformance " coming with each product delivery

** after drying according ISO 3344:1997

Packaging

Yarn on plastic milk bottles. Bobbins of 3 kg. Yarn is wrapped in a cardboard box.

Product Stability:

BASALTEX™ Products have not been designed for full external exposure conditions and cannot be guaranteed for use in such situations. However, these BASALTEX™ products have considerable tolerance to damp conditions and occasional water immersion. After drying out, the product will give the same level of performance as the original sample.

Stability over time:

Said products not being subjected to excessive heat, wear and abrasion, all evidence obtained to date indicates that their performance should not significantly change over a significant period of time. It is the responsibility of the developer of the end-product, finished device or system to test its performance in the end-application.