

# TENAX FR

Type: 270

Flame retardant bi-oriented geogrid



TENAX FR are biaxially polypropylene geogrids especially designed for containment of rock debris in tunneling and mining applications. TENAX FR geogrids are well suited for mining grating; they do not contribute significantly to the fire propagation and to the generation of smoke while burning being stabilized with fire retardant additive (EN 13501); they are strong, durable and easy to install.

## Typical applications

Mining grating - indoor grid - rock protection grid for tunneling - indoor fence.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	DATA	NOTES
STRUCTURE			BI-ORIENTED GEOGRIDS	
MESH TYPE			RECTANGULAR APERTURES	
STANDARD COLOR			WHITE / BLACK	
POLYMER TYPE			POLYPROPYLENE	
FLAME RETARDANT	EN 13501		YES	
PACKAGING	ISO 10320		ROLLS IN POLYETHYLENE BAGS WITH I.D. LABEL	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	FR 270		NOTES
APERTURE SIZE MD		mm	59.5		d,e
APERTURE SIZE TD		mm	56.5		d,e
MASS PER UNIT AREA	ISO 9864	g/m <sup>2</sup>	270		b
ROLL WIDTH		m	2.0	4.0	b
ROLL LENGTH		m	50.0	50.0	b,f
ROLL DIAMETER		m	0.32	0.32	b
ROLL VOLUME		m <sup>3</sup>	0.21	0.42	b
GROSS ROLL WEIGHT		kg	30.6	61.0	b

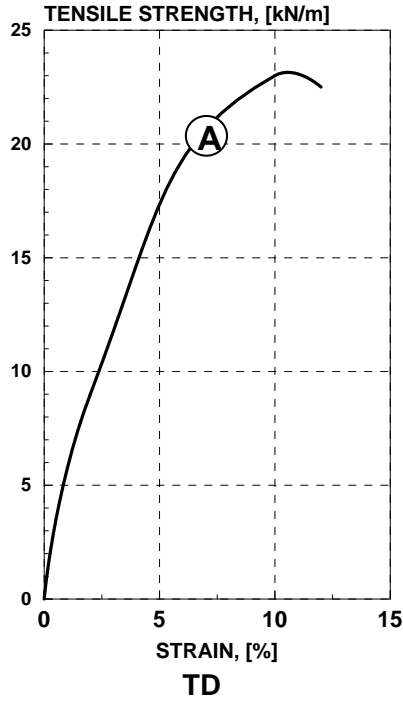
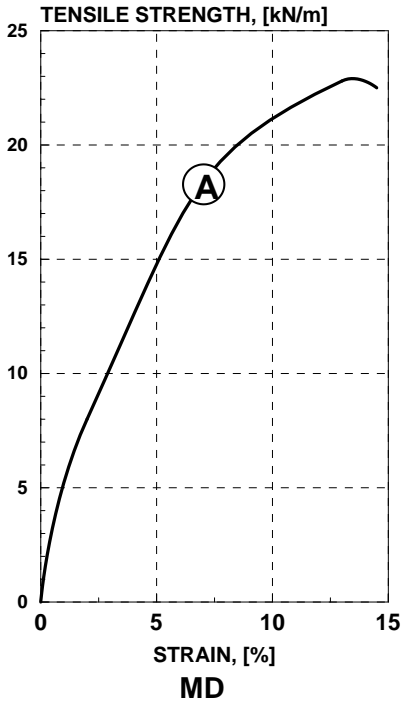
TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	FR 270		NOTES
			MD	TD	
PEAK TENSILE STRENGTH	ISO 10319	kN/m	20.0	20.0	a,c,d
YIELD POINT ELONGATION	ISO 10319	%	13.0	10.0	b,c,d

### NOTES:

- a) Tolerance: -1 kN/m
- b) Typical values
- c) Tests performed using extensometers
- d) MD: machine direction (longitudinal to the roll)  
TD: transverse direction (across roll width)
- e) Aperture Tolerance: ± 3mm
- f) Available in different length

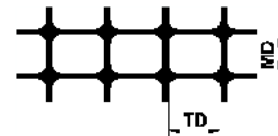


## Typical Tensile Characteristics



**GEOGRID TYPE:**

**A = TENAX FR 270**



The TENAX Laboratory has been operational since 1980 and has been continuously improved with the purpose of assuring unequalled technical development of the products and accurate Quality Control.

The TENAX Laboratory can perform mechanical, hydraulic and durability tests, according to the most important international standards like ISO, CEN, ASTM, DIN, BSI, UNI.

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