

TECHNICAL DATA SHEET

THRACE concrete crack-control fibers

THRACE TMIX fibers for concrete are high performance high tenacity polypropylene (PP) **Class 1a microfibers** developed for crack control of concrete, which fulfil the requirements of the EU Construction Products Regulation **305/2011** and amendments, and the specifications of the European Standard **EN 14889-2** (Attestation of conformity System 3, acc. to Table ZA.2). They are highly resistant to chemicals, especially in alkaline environments, and have a round cross section. They are specially engineered and manufactured for use in concrete, mortar or grout, at a minimum recommended dosage rate of 0.9kg per cubic meter of concrete.



Notified Body No. 0780
LGA Bautechnik GmbH

Properties	Method	Units	Nominal Value
PHYSICAL PROPERTIES			
Length*	Optically	mm	3-54mm (±10%) upon request
Diameter	Optically	µm	~32 (±10%)
Specific Gravity	Bibliography	g/cm ³	0.905
Melting point	ISO 11357-3	°C	~165
MECHANICAL PROPERTIES			
Linear Density	EN 13392	dtex	7.5 (±10%)
Tenacity	EN ISO 2062	cN/dtex	6.2 (-13%)
		MPa	560 (-13%)
Tensile elongation	EN 14899-2	%	22 (±4)
Young's modulus**	EN 14899-2	GPa	6.2
Effect on consistence of concrete (900gr fibres/m ³ of concrete)***	EN 12350-3	VEBE time	1.26-1.28s
	EN 12350-4	10s	
Consistency of the reference concrete***	EN 12350-3	VEBE time	1.25s
	EN 12350-4	7s	
FIBER CHARACTERISTICS			
Composition type	100% PP		
Cross section area	round		
UV stabilization	~150kLy		
Chemical resistance	Excellent resistance to acids and alkali		

* Available lengths: in multiples of 3, up to 54mm

** calculated at 1% strain





*** values validated for fiber lengths of 6 and 12mm

Fiber Length	mm	3	6	12	18	21	30	51	54
Estimated Number of fibers per kg	millions	444	222	111	74	63	44	26	25

NOTES:

ThrAce Nonwovens & Geosynthetics S.A. reserves the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data are current. All the values presented in the above table are averages from standard tests, though not guaranteed.

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-  EN ISO 9001:2015
-  EN ISO 14001:2015
-  EN ISO 50001:2018
-  EN ISO 45001:2018

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