

Technical Datasheet

ZOLTEK™ OX Staple Fiber

Oxidized/Stabilized PAN Fiber (OPAN)

DESCRIPTION

ZOLTEK OX crimped staple fibers are oxidized/stabilized PAN fibers (OPAN) that are inherently fire resistant, thermally stable, exhibit excellent resistance to chemicals and solvents and are electrically nonconductive. Available in three denier sizes and various cut lengths, ZOLTEK OX staple fibers produce the highest quality nonwoven fabrics and the finest spun yarns on the market today.



MATERIAL PROPERTY	STANDARD DENSITY					HIGH DENSITY	
Density	1.37 g/cm ³ (0.0495 lb/in ³)					1.40 g/cm ³ (0.0506 lbs/in ³)	
LOI	40%+					50%+	
Fineness	1.7 dTex 1.5 denier	2.2 dTex 2.0 denier			5.0 dTex 4.5 denier	2.2 dTex 2.0 denier	
Length	60 mm 2.3 in	50 mm 2.0 in	60 mm 2.3 in	74 mm 3.0 in	80 mm 3.1 in	60 mm 2.3 in	70 mm 3.0 in
Format	Crimp level 7.6 per inch (3.0 per cm)						

FIBER PROPERTIES		CHEMICAL COMPOSITION (%)		CHEMICAL RESISTANCE	
Density	1.36 g/cc min.	Carbon Content	62	Strong Acids	Good
Diameter	12.5 μ (1.7dTex)	Nitrogen	21.5	Weak Acids	Excellent
LOI	40%+	Oxygen	12	Strong Bases	Poor
Color	Black	Hydrogen	4.5	Weak Bases	Good
Resistivity	8x10 ⁸ ohms-cm	Sodium	< 0.1	Organic Solvents	Excellent
		Trace Metals	<0.01		

The properties listed in this datasheet do not constitute any warranty or guarantee of values. This information should only be used for the purposes of material selection. Please contact us for more details.

TYPICAL PACKAGING

ZOLTEK OX Staple Fiber is packaged in bales approximately 300 kg (675 lbs). Moisture Content & Sizings: Variable; based upon end use application.

CERTIFICATION

ZOLTEK OX Staple Fiber is manufactured in accordance with ZOLTEK's written and published data. A Certificate of Conformance is provided with each shipment.

SAFETY

Obtain, read, and understand the Material Safety Data Sheet (SDS) before use of this or any other ZOLTEK product.

ZOLTEK™ OX

