ZOLTEK™ OX CONTINUOUS TOW

DESCRIPTION
ZOLTEK OX continuous tow fibers are oxidized/stabilized PAN fibers (OPAN) that are inherently fire resistant, thermally stable, exhibit excellent resistance to chemicals and solvents and are electrically non-conductive. Available crimped or uncrimped, ZOLTEK OX continuous tow is suitable for stretch breaking into yarn, cutting into flock, crimping & cutting into staple fibers for nonwovens or yarn spinning.

MATERIAL PROPERTY | STANDARD DENSITY | HIGH DENSITY
--- | --- | ---
Density | 1.37 g/cm³ (0.0495 lb/in³) | 1.40 g/cm³ (0.0506 lb/in³)
LOI | ~45% | ~55%
Finessness | 1.7 dTex | 2.2 dTex | 5.0 dTex | 1.7 dTex | 2.2 dTex
Tensile Strength | 18.5-23 cN/tex (2.1 - 2.6 gpd) 240 - 300 MPa (34,800 psi) | 
Fiber Diameter | 12.5μ | 14μ | 22μ | 12.5μ | 14μ
Filament Count | 300K | 160K | 300K
Elongation to Break | 22% - 28% | 
Format | Uncrimped | 

CHEMICAL COMPOSITION (%)

<table>
<thead>
<tr>
<th></th>
<th>Carbon Content</th>
<th>Nitrogen</th>
<th>Oxygen</th>
<th>Hydrogen</th>
<th>Sodium</th>
<th>Trace Metals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>62</td>
<td>21.5</td>
<td>12</td>
<td>4.5</td>
<td>&lt; 0.1</td>
<td>&lt; 0.01</td>
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</tbody>
</table>

CHEMICAL RESISTANCE

<table>
<thead>
<tr>
<th></th>
<th>Strong Acids</th>
<th>Weak Acids</th>
<th>Strong Bases</th>
<th>Weak Bases</th>
<th>Organic Solvents</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Good</td>
<td>Excellent</td>
<td>Poor</td>
<td>Good</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

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 Continuous Tow is pleated into plastic lined boxes weighing approximately 185kg (400lbs). Crimped tow available packaged in bales weighing approximately 430kg (950lbs).

CERTIFICATION
ZOLTEK OX Continuous Tow 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.