

Unique identification code of the product-type:	<b>FLAGON BT FLAGON BT 20</b>
Intended uses:	- PVC membrane for waterproofing of tunnels and underground structures (EN 13491:2004/A1:2006) - PVC membrane for waterproofing for rising damp from the ground (EN 13967:2012)
Manufacturer:	<b>SOPREMA srl Via Industriale dell'Isola, 3 24040 CHIGNOLO D'ISOLA (BG) – Italia www.soprema.it</b>
Authorised representative:	<b>Not applicable</b>
Systems of AVCP:	<b>System 2+</b>
Harmonised standard:	<b>EN 13491:2004/A1:2006 EN 13967:2012</b>
Notifies bodies:	<b>Notified Body No. 1085 OFI Technologie &amp; Innovation GmbH</b>
Declared performances:	

Essential characteristics	Test method	Performance	Harmonised technical specification
Reaction to fire	EN 13501-1	<b>E</b>	<b>EN 13967:2012</b>
Water tightness at 2kPa and 60kPa	EN 1928 met. B	<b>watertight</b>	
Tear resistance (N) thickness 1,5 mm thickness 2,0 mm thickness 2,5 mm thickness 3,0 mm	EN 12310-1	<b>&gt; 280 &gt; 375 &gt; 460 &gt; 560</b>	
Joint strength (N/50mm) thickness 1,5 mm thickness 2,0 mm thickness 2,5 mm thickness 3,0 mm	EN 12317-2	<b>&gt; 750 &gt; 1100 &gt; 1250 &gt; 1500</b>	
Resistance to impact (mm) thickness 1,5 mm thickness 2,0 mm thickness 2,5 mm thickness 3,0 mm	EN 12691	<b>≥ 450 ≥ 750 ≥ 900 ≥ 1200</b>	
Tensile properties: - Tensile strength (N/mm <sup>2</sup> ) longitudinal transverse - Elongation (%) longitudinal transverse	EN 12311-2	<b>&gt; 14,4 &gt; 13,5  &gt; 330 &gt; 330</b>	
Resistance to static loading (kg)	EN 12730	<b>&gt; 20</b>	
Durability: - against ageing at 2kPa and 60 kPa - against chemicals at 2kPa and 60 kPa	EN 1296 EN 1847	<b>watertight watertight</b>	
Dangerous substances	-	<b>conforms</b>	

Essential characteristics	Test method	Performance	Harmonised technical specification
Tensile strength: - Longitudinal (MD) (N/mm <sup>2</sup> ) - Transversal (CMD) (N/mm <sup>2</sup> )	EN ISO 527-3	> <b>14,73</b> (-0,33 N/mm <sup>2</sup> ) > <b>13,83</b> (-0,33 N/mm <sup>2</sup> )	<b>EN 13491:2004/ A1:2006</b>
Resistance to static puncture (kN) thickness 1,5 mm thickness 2,0 mm thickness 2,5 mm thickness 3,0 mm	EN ISO 12236	> <b>1,59</b> (-0,09 kN) > <b>2,22</b> (-0,12 kN) > <b>2,76</b> (-0,16 kN) > <b>3,50</b> (-0,20 kN)	
Water permeability:	EN 14150	< <b>10<sup>-6</sup>m<sup>3</sup>m<sup>-2</sup>d<sup>-1</sup></b>	
Durability: - Oxidation, variation in tensile properties (%) - Environmental stress cracking	EN 14575 ASTM D 5397	≤ <b>25</b> <b>not applicable</b>	
Dangerous substances	-	<b>conforms</b>	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

**Mr. BROCCANELLO Bruno, Managing Director**  
**Chignolo d'Isola, 04/02/2021**

