

TECHNICAL DATA SHEET

Composition

<b>Base material</b>	TNT 100% polyester
<b>Matrix material</b>	Flameproof acrylic compound, 100% water base
<b>Active substance</b>	Micro-expanding agent with a high insulating power

Property*	Standard	Reference value	Parameter	Result
<b>Dimensional stability</b>	UNI EN 1603	T=23° C R.H=50%	Mean variation in geometrical dimensions	Δl=0.66%
<b>Tensile strength</b>	ISO 527	v=1 mm/min	σ <sub>s</sub> [MPa] - A <sub>W,S</sub> σ <sub>R</sub> [MPa] - A <sub>W,R</sub>	0,3 - 6% 2,5 - 129%
<b>Fire resistance</b>	EN ISO 11925	EN 13501	Euroclasse	E
<b>Tear resistance</b>	ETAG 004	ETAG 004	σ <sub>R,pull-off</sub> [MPa]	0,3
<b>Thickness</b>	-	T=23° C R.H=50%	S [mm]	5
<b>Specific weight</b>	-	T=23° C R.H=50%	M <sub>h</sub> [g/m <sup>2</sup> ]	700 ±5%
<b>Thermal conductivity</b>	EN 12667	T <sub>MEAN</sub> = 10° C Δt=20° C	λ [W/mk]	0,031
<b>Water vapour transmission</b>	EN ISO 12086	T=23° C R=0-85%	δ[kg/m <sup>3</sup> Pa] μ S <sub>d</sub> [m]	1,19·10 <sup>-10</sup> 59,6 0,2384
<b>Protection from mold attack</b>	DIN 53931	2 weeks incubation at 28° C with mold spores of: <ul style="list-style-type: none"> <li>Aspergillus niger</li> <li>Penicillium funiculosum</li> <li>Chaetomium Globosum</li> </ul>	Visual evaluation: <ul style="list-style-type: none"> <li>00 = no fungal growth on the plate</li> <li>0 = no fungal growth on the specimen and presence of an inhibition Halo around it</li> <li>(0) = absence of fungal growth on the sample without any hole around it</li> <li>1 = slight fungal growth on the outer edge of the sample</li> <li>2 = fungal growth on about 25% of the sample</li> <li>3 = fungal growth on about 50% of the sample</li> <li>4 = fungal growth on about 75% of the sample</li> <li>5 = fungal growth over the entire surface of the sample</li> </ul>	00

Property*	Standard	Reference value	Parameter	Result
Protection from mold attack	THOR No. 800.2	48 h in washed-out water. After 21 days of incubation with molds and fungi of major importance in practice.	Visual evaluation: <ul style="list-style-type: none"> <li>• 0 = absence of fungal growth with halo</li> <li>• (0) = no fungal growth without halo</li> <li>• 1 = growth tracks</li> <li>• 2 = growth on an area from 1 to 10%</li> <li>• 3 = growth on an area from 11 to 30%</li> <li>• 4 = growth on a surface from 31 to 70%</li> <li>• 5 = growth on a surface from 71 to 100%</li> </ul>	(0)

\* Tests carried out at qualified laboratories



Manifattura del Seveso

Manifattura del Seveso S.p.A.

Via Vespucci, 20 - 24046 Osio Sotto (BG) Italy

P.I. 06007650960

Tel. +39 035 881950 - Fax +39 035 4823427

[info@isobell.it](mailto:info@isobell.it)