



**ISOFOR** di MARCO BELTRACHINI

- sede legale – via esterna del molino, 5/e – 24040 **STEZZANO** (BG)
- sede operativa – via autieri d'Italia, 25 – 24040 **COMUN NUOVO** (BG) – Tel. +39.035.334185
- partita IVA **03243970161** ■ codice fiscale **BLTMRC64P16A794Q**

[www.isoform.it](http://www.isoform.it) – [info@isoform.it](mailto:info@isoform.it)

<b>PROPERTIES OF ISOFOR<sup>®</sup></b>		<b>NORMATIVE OF REFERENCE PR DIN EN 15100-1:2005</b>		
PROPERTIES (of the foam)		UNITS	VALUE	CONTROL METHOD
Thermal conductivity $\lambda$ -Temperature 10°C $\lambda_D$		W/m•K	0.031	UNI EN 12667:2002
Density of dry foam <b>DY</b>		kg/m <sup>3</sup>	10-20	EN1602
Water vapor transmission	Speed TVA (g)	mg/(m <sup>2</sup> •h)	2357	UNI EN 12086:1999
	Permeance (W)	mg/(m <sup>2</sup> •h•Pa)	1.68	
	Resistance (Z)	(m <sup>2</sup> •h•Pa)/mg	0.595	
	Permeability ( $\delta$ )	mg/(m•h•Pa)	0.080	
Water vapour resistance factor $\mu$ <b>MU</b>		$\mu$	8.87	UNI EN 12086:1999
Dimensional stability -after 24 hours to 70°C -after 24 hours to -20°C		% %	-2.5 0	UNI EN 1604:1999
Short term water absorption by partial immersion <b>W<sub>p</sub></b>		Method A kg/m <sup>2</sup> Method B kg/m <sup>2</sup>	2.73±0.20 8.77±0.61	UNI EN 1609:2008
Sound absorption		$\alpha$ W	0.50	UNI EN ISO 354:2003
Reaction to fire		EUROCLASSE  Self-extinguishing Does not drip Does not produce significant smoke	E	EN ISO 11925-2:2020
Release of hazardous substances <b>ES</b> (formaldehyde)		CLASSE  Emission value less than a third of the emission limit established by the EN 13956 standard	ES 1  <1 mg/m <sup>2</sup> •h	EN 717-2:2004
Compressive strength at 10%		kPa	36.9 ± 2.6	UNI 6350:1968
<b>IDENTIFICATION CODE OF THE PRODUCT : UF EN15100-1(T3)-DY15/MU8,8/W2,7/S30</b>				



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<b>PROPERTIES OF ISOFOR<sup>®</sup></b>		<b>ADDITIONAL LABORATORY TESTS</b>	
PROPERTIES (of the foam)	UNITS	VALUE	
<b>Specific heat</b>	J/kg•K	1800	
<b>Water absorption</b> -Met. DOE: 7days. on water -Met. BS: 24 hours on water	% vol. Kg/m <sup>2</sup>	3 1	
<b>Equilibrium moisture content</b> -at 23°C 50% RH -at 23°C 70% RH -at 23°C 90% RH	% vol. % vol. % vol.	0.15 0.20 0.27	
<b>Release of dangerous substances in confined space (test for formaldehyde)</b>	Colorimetric analysis does not reveal the presence of formaldehyde		Facoltà di Ing. Chimica e farmacologia dell'Università di Genova
<b>Dimensional stability</b> -after 30 days at 50°C 90% UR  -after 30 days in stove at 100°C	% vol.  % vol.	no significant change  -5	
<b>Freeze-thaw stability (Ageing)</b>	No dimensional change or of technical specification		
<b>Hydrolytic stability</b> -after immersion for 1 year in H <sub>2</sub> O	No dimensional change or of technical specification		
<b>Operating temperature</b>	°C	-20 a +120	
<b>Flammability and combustibility</b>	Self-extinguishing classified 94 H E F1		ASTM D 1692 UL 94- FOAM
<b>Smoke density</b>	%	2	ASTM D 2843
<b>Mold pest resistance</b>	The foam does not constitute food for rodents and is resistant to mold		