

## **Technical Data**

## **XENERGY™ RTM Plus**

EN 826   MPa   17 (≤30mm)   22 (31-80mm)   28 (>80mm)   28 (>80mm)   - 28 (>80	Properties	Standard	Unit	XENERGY™ RTM Plus	CE-Code
Thermal conductivity declared (A <sub>D</sub> )	Cell content			HFC	
Thermal conductivity for 60 days old foam - mean value at 10°C   EN 12939   EN 12939   EN 12939	Density (typical value)	EN 1602	kg/m³	40	-
Value at 10°C  Compressive stress or compressive strength @ 10% deformation 20	Thermal conductivity declared (λ <sub>D</sub> )	EN 13164	W/(m.K)	0,029 <sup>1)</sup>	$\lambda_{D}$
EN 826   KPa   400   CS(101Y)			W/(m.K)	0,025	λ-mean, 60d
Shear strength	Compressive stress or compressive strength @ 10% deformation <sup>2)</sup>	EN 826	kPa	400	CS(10\Y)
EN 1606   KPa   140   CC(2/1,5/50) Go	Tensile strength <sup>2)</sup>	EN 1607	kPa	900	TR
under stress 6c²         EN 1606         kPa         140         CC(2/1,5/50) 6c           Moduli (typical values)         EN 826         MPa         17 (≤30mm) 22 (31-80mm) 22 (31-80mm)         -           E-Modulus ²)         EN 1607         MPa         28 (≥50mm)         -           Tensile modulus ²)         EN 1607         MPa         10         -           Shear modulus G³)         EN 12090         MPa         10         -           Water vapor diffusion resistance factor (tabulated value)         EN 150 10456         -         150         -           Long term water absorption by total immersion         EN 12087         %         1,5         WL(T)           Dimensional stability under specified temperature         EN 1604         %         5         DS(70,90)           Deformation under specified compressive load (40kPa) and temperature (70°C) conditions         EN 1605         %         5         DLT(2)5           Capillarity         -         %         0         -         -           Coefficient of linear thermal expansion (typical value)         -         mm/(m.K)         0,07         -           Reaction to fire - Euroclass         EN 823         mm         20-140         -           Thickness         EN 822         mm </td <td>Shear strength</td> <td>EN 12090</td> <td>kPa</td> <td>400</td> <td>SS</td>	Shear strength	EN 12090	kPa	400	SS
E-Modulus ²)  EN 826 MPa 17 (≤30mm) 22 (31-80mm) - 28 (>80mm)  Tensile modulus ²)  EN 1607 MPa 28 (≥50mm)  EN 12090 MPa 10 - 2  Water vapor diffusion resistance factor (tabulated value)  Long term water absorption by total immersion  EN 12087 % 1,5 WL(T)  Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)  Deformation under specified compressive load (40kPa) and temperature (70°C) conditions  Capillarity  Coefficient of linear thermal expansion (typical value)  Reaction to fire - Euroclass  EN 13501-1 − E − − − − − − − − − − − − − − − − −	under stress $\sigma_{c}^{2}$	EN 1606	kPa	140	CC(2/1,5/50) 6c
Shear modulus G 3)	Moduli (typical values) E-Modulus <sup>2)</sup>	EN 826	MPa	22 (31-80mm)	-
Water vapor diffusion resistance factor (tabulated value)         EN ISO 10456         -         150         -           Long term water absorption by total immersion         EN 12087         %         1,5         WL(T)           Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)         EN 1604         %         5         DS(70,90)           Deformation under specified compressive load (40kPa) and temperature (70°C) conditions         EN 1605         %         5         DLT(2)5           Capillarity         -         %         0         -         Coefficient of linear thermal expansion (typical value)         -         mm/(m.K)         0,07         -           Reaction to fire - Euroclass         EN 13501-1         -         E         -           Temperature limits         -         °C         -50/+75         -           Dimensions 4)         -         °C         -50/+75         -           Thickness         EN 823         mm         20-140         -           Width         EN 822         mm         600-1200         -           Length         EN 823         mm         -/+0,5         T           Width         EN 822         mm         -/0,0+10         -           Length	Tensile modulus <sup>2)</sup>	EN 1607	MPa	28 (≥50mm)	-
value)       Long term water absorption by total immersion       EN 12087       %       1,5       WL(T)         Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)       EN 1604       %       5       DS(70,90)         Commation under specified compressive load (40kPa) and temperature (70°C) conditions       EN 1605       %       5       DLT(2)5         Capillarity       -       %       0       -         Coefficient of linear thermal expansion (typical value)       -       mm/(m.K)       0,07       -         Reaction to fire - Euroclass       EN 13501-1       -       E       -         Temperature limits       -       °C       -50/+75       -         Dimensions 4)       -       °C       -50/+75       -         Dimensions 4)       EN 823       mm       20-140       -         Width       EN 822       mm       600-1200       -         Length       EN 823       mm       -/+0,5       T         Width       EN 822       mm       -/+0,5       T         Width       EN 822       mm       -/-0,5       T         Length       EN 822       mm       -0/+10       -         EN 822       mm <td>Shear modulus G 3)</td> <td>EN 12090</td> <td>MPa</td> <td>10</td> <td>-</td>	Shear modulus G 3)	EN 12090	MPa	10	-
Dimensional stability under specified temperature (70°C) and humidity conditions (90%rh)   EN 1604		EN ISO 10456	-	150	-
(70°C) and humidity conditions (90%rh)         EN 1604         %         5         DS(70,90)           Deformation under specified compressive load (40kPa) and temperature (70°C) conditions         EN 1605         %         5         DLT(2)5           Capillarity         -         %         0         -           Coefficient of linear thermal expansion (typical value)         -         mm/(m.K)         0,07         -           Reaction to fire - Euroclass         EN 13501-1         -         E         -           Temperature limits         -         °C         -50/+75         -           Dimensions 4)         EN 823         mm         20-140         -           Thickness         EN 822         mm         600-1200         -           Width         EN 822         mm         2500/3000         -           Tolerances         Thickness         EN 823         mm         -/+0,5         T           Width         EN 822         mm          -70,0mm: -0/+3         -           Length         EN 822         mm         -0/+10         -           Edge profile         -         -         butt edge         -		EN 12087	%	1,5	WL(T)
(40kPa) and temperature (70°C) conditions       EN 1605       %       5       DLT(2)s         Capillarity       -       %       0       -         Coefficient of linear thermal expansion (typical value)       -       mm/(m.K)       0,07       -         Reaction to fire - Euroclass       EN 13501-1       -       E       -         Temperature limits       -       °C       -50/+75       -         Dimensions 4)       EN 823       mm       20-140       -         Width       EN 822       mm       600-1200       -         Length       EN 822       mm       2500/3000       -         Tolerances       EN 823       mm       -/+0,5       T         Width       EN 822       mm       -/+0,5       T         Length       EN 822       mm       -/-0+10       -         Edge profile       -       -       butt edge       -	(70°C) and humidity conditions (90%rh)	EN 1604	%	5	DS(70,90)
Capillarity       -       %       0       -         Coefficient of linear thermal expansion (typical value)       -       mm/(m.K)       0,07       -         Reaction to fire - Euroclass       EN 13501-1       -       E       -         Temperature limits       -       °C       -50/+75       -         Dimensions 4)       EN 823       mm       20-140       -         Width       EN 822       mm       600-1200       -         Length       EN 822       mm       2500/3000       -         Tolerances       Thickness       EN 823       mm       -/+0,5       T         Width       EN 822       mm       <700mm: -0/+3		EN 1605	%	5	DLT(2)5
Reaction to fire - Euroclass         EN 13501-1         -         E         -           Temperature limits         -         °C         -50/+75         -           Dimensions 4)         Thickness         EN 823         mm         20-140         -           Width         EN 822         mm         600-1200         -           Length         EN 822         mm         2500/3000         -           Tolerances         EN 823         mm         -/+0,5         T           Width         EN 822         mm         <700mm: -0/+3		-	%	0	-
Temperature limits         -         °C         -50/+75         -           Dimensions 4)         EN 823         mm         20-140         -           Width         EN 822         mm         600-1200         -           Length         EN 822         mm         2500/3000         -           Tolerances         EN 823         mm         -/+0,5         T           Width         EN 822         mm         <700mm: -0/+3		-	mm/(m.K)	·	-
Dimensions 4)       EN 823       mm       20-140       -         Width       EN 822       mm       600-1200       -         Length       EN 822       mm       2500/3000       -         Tolerances       EN 823       mm       -/+0,5       T         Width       EN 822       mm       <700mm: -0/+3 ≥700mm: -0/+5			-		-
Thickness       EN 823       mm       20-140       -         Width       EN 822       mm       600-1200       -         Length       EN 822       mm       2500/3000       -         Tolerances       EN 823       mm       -/+0,5       T         Width       EN 822       mm       <700mm: -0/+3 ≥700mm: -0/+5		-	°C	-50/+75	-
Width Length       EN 822 mm       mm 600-1200 mm       -         Length       EN 822 mm       2500/3000 mm       -         Tolerances Thickness       EN 823 mm       -/+0,5 mm       T         Width       EN 822 mm       <-700mm: -0/+3 mm		EN 823	mm	20-140	_
Length       EN 822       mm       2500/3000       -         Tolerances Thickness       EN 823       mm       -/+0,5       T         Width       EN 822       mm       <700mm: -0/+3 ≥700mm: -0/+5					_
Tolerances       EN 823       mm       -/+0,5       T         Width       EN 822       mm       <700mm: -0/+3 ≥700mm: -0/+5					-
Thickness       EN 823       mm       -/+0,5       T         Width       EN 822       mm       <700mm: -0/+3 ≥700mm: -0/+5	-				
Length  EN 822 mm -0/+10 -  Edge profile butt edge -		EN 823	mm	-/+0,5	Т
Length         EN 822         mm         -0/+10         -           Edge profile         -         -         butt edge         -	Width	EN 822	mm		-
Edge profile – – butt edge –	Length	EN 922	mm		_
	Edge profile	EIN OZZ	-		_
Surface Fillisti – nlaned / grooved –	Surface Finish	_	_	planed / grooved	_

Designation Code: XPS-EN 13164-T3-CS(10\Y)400-CC(1,5/2/50)140-DS(70,90)-DLT(2)5-WL(T)1,5-TR900-SS400

- 1) Pending certification
- 2) Measured in thickness direction.
- 3) It may vary with the in-plane direction.
- Products with special dimensions or closer tolerances are available upon request.

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 $<sup>1 \</sup>text{ N/mm}^2 = 10^3 \text{ kPa}$ ;  $1 \text{ kPa} = 10^{-3} \text{ MPa}$ .