



Technical Data

STYROFOAM™ RTM-XP RTM-GV-XP

Properties	Standard	Unit	STYROFOAM™ RTM-XP RTM-GV-XP	CE-Code
Density (typical value)	EN 1602	kg/m ³	40	-
Thermal conductivity declared (λ_D)	EN 13164	W/(m.K)	0.029	λ_D
Thermal conductivity for 60 days old foam – mean value at 10°C	EN 12667 EN 12939	W/(m.K)	0.025 (>50mm)	λ -mean, 60d
Compressive stress or compressive strength @ 10% deformation ¹⁾	EN 826	kPa	400	CS(10\Y)
Tensile strength ¹⁾	EN 1607	kPa	900	TR
Shear strength	EN 12090	kPa	400	SS
Compressive creep after 50 years \leq 2% deformation under stress σ_C 1)	EN1606	kPa	140	CC(2/1,5/50) σ_c
Moduli (typical values)				
E-Modulus ¹⁾	EN 826	MPa	17 (\leq 30mm) 22 (31-80mm) 28 (>80mm)	-
Tensile modulus ¹⁾	EN 1607	MPa	28 (\geq 50mm)	-
Shear modulus G ²⁾	EN 12090	MPa	10	-
Water vapour diffusion resistance factor μ (tabulated value)	EN 12086	-	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
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				
Thickness	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 <700mm: -0/+5	-
Length	EN 822	mm	-0/+10	-
Edge Profile	-	-	butt edge	-
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) Measured in thickness direction.

2) It may vary with the in-plane direction. 1 N/mm² = 10³ kPa; 1 kPa = 10⁻³ Mpa.

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Note:

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