X-FOAM® WAFER

EXTRUDED POLYSTYRENE PANEL (XPS) [WITHOUT HCFC - WITHOUT HFC]

CARACTERISTICS	STANDARD	UNIT	VALUES
SIZE			
Thickness	EN 823	mm	20* - 300
Thickness tolerance class (T2)			
Thickness < 50 mm	EN 823 EN 13164	mm	-1,5 /+1,5
Thickness from 50 to 120 mm			-1,5 /+1,5
Thickness > 120 mm			-1,5 /+1,5
Length	EN 822	mm	1250
Width	EN 822	mm	600
TYPE FINISH			
Straight edges ☐	Panel with wafer surface		
THERMAL CONDUCTIVITY AND THERMAL RESISTANCE			
Declared thermal conductivity			
Thickness from 20 mm to 30 mm	EN 13164 EN 12667	W/mK	0,032
Thickness 40 mm			0,033
Thickness from 50 mm to 60 mm			0,033
Thickness from 80 mm to 100 mm			0,035
Thickness 120 mm			0,035
Thickness from 140 mm to 180 mm			0,034
Thickness from 200 mm to 300 mm			0,035

Thermal resistance (EN 13164)

Thickness (mm):	20	30	40	50	60	80	100	120	140	160	180	200	220	240	260	280	300
Thermal resistance (m^2K/W):	0,60	0,90	1,20	1,50	1,80	2,25	2,85	3,40	4,15	4,70	5,25	5,75	6,30	6,85	7,45	8,00	8,55

COMPRESSIVE STRESS AT 10% DEFORMATION - σ_{10}			
Thickness from 20 mm to 40 mm	EN 826	kPa	≥ 200
Thickness from 50 mm to 300 mm			≥ 250
TENSILE STRENGHT PERPENDICULAR TO FACES			
Thickness from 20 mm to 300 mm	EN 1607	kPa	≥ 600
DIMENSIONAL STABILITY AT SPECIFIED TEMPERATURE AND HUMIDITY CONDITIONS			
Condition test: (48±1) hours, (70±2)°C and (90± 5)% U.R.			
Changes in thickness, length and width	EN 1604	%	≤ 5
DEFORMATION BEHAVIOR			
Test condition: 70ºC, 168 hours, 40 kPa	EN 1605	%	≤ 5
LONG TERM WATER ABSORBTION BY TOTAL IMMERSION (28 DAYS)			
Thickness from 30 mm to 300 mm	EN 12087	Vol. %	≤ 0,7
WATER ABSORBTION BY DIFFUSION (28 DAYS)			
Thickness from 20 mm to 50 mm	EN 12088	Vol. %	≤ 5
Thickness from 60 mm to 300 mm			≤ 3
WATER VAPOUR DIFFUSION RESISTANCE FACTOR (μ)			
Thickness from 20 mm to 300 mm	EN 12086		80
FREEZE - THAW RESISTANCE			
Thickness from 20 mm to 300 mm	EN 12091	Vol. %	≤ 1
REACTION TO FIRE			
Reaction to fire	EN 13501-1	Euroclass	E
TEMPERATURE LIMIT USE			
Temperature limit use		º C	+ 75

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