


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)	EN 823 EN 13164	mm	Thickness < 50 mm
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	EN 13164 EN 12667	W/mK	Thickness from 20 mm to 30 mm
Thickness from 40 mm			0,032
Thickness from 50 mm to 60 mm			0,033
Thickness from 80 mm to 100 mm			0,034
Thickness 120 mm			0,035
Thickness from 140 mm to 180 mm			0,036
Thickness from 200 mm to 300 mm			0,034
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 ² K/W):	0,60 0,90 1,20 1,45 1,75 2,25 2,85 3,30 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 STRENGTH 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 \pm 1) hours, (70 \pm 2) $^{\circ}$ C and (90 \pm 5)% U.R.	EN 1604	%	≤ 5
Changes in thickness, length and width			
DEFORMATION BEHAVIOR			
Test condition: 70 $^{\circ}$ C, 168 hours, 40 kPa	EN 1605	%	≤ 5
LONG TERM WATER ABSORPTION BY TOTAL IMMERSION (28 DAYS)			
Thickness from 30 mm to 300 mm	EN 12087	Vol. %	$\leq 0,7$
WATER ABSORPTION 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		$^{\circ}$ C	+ 75

* no wafer surface

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