



Expanded Polystyrene Manufacturers

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Physical and mechanical properties of EPS



SPECIFICATIONS	Norm	Unit of measurement	EPS 50 EPS 50B *1	EPS 90
Density		[Kg /m3]	12 +/-1	18 +/-1
Thermal conductivity l	EN 12667:20001	[W/(m.K)]	0.039	0.037
Thermal resistance R (5cm)		[m2K/W]	1.29	1.35
Compressive strength at 10% of fracture	EN 826	[kPa]	≥50	≥90
Flexural	EN 12089	[kPa]	90-110	160-220
Dimensional Stability	EN 1603	[%]	-0,2%	-0,2%
Dimensional stability under specific temperature and humidity	EN 1604	[%]	-0,1%	-0,1%
Release of dangerous substances	EN 16000-10,11,3	[mg/m3]	<10 Pass	<10 Pass
Long term absorption by immersion	EN 12087	[vol. %]	2,0	2,0
Long term absorption by diffusion	EN 12088	[vol. %]	2,5	2,5
Reaction to fire	EN 13501	flame retardant Euroclasse E		

*1 include a certain percentage of EPS recycled material

Size of plates [mm]	Thickness of plates [mm]
1000 x 500, 1000 x 1000, 2000 x 1000, 2500 x 600	from 10 to 600

Packing for faced insulation EPS90		Size of plates [mm]
3cm	10 m2	1000x500 or 1250x600
5cm	5.5 m2	
6cm	4.5 m2	
8cm	4 m2	