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## **ISILION EPS CARBONIFEROUS PLATE**

Product Definition	> Expanded Polystyrene (EPS) that expands in preliminary inflation with the add of pentane, inflator catalyzer active substance, with polymerisation of styrene mono and again spreading homogenously in the container by pouring polystyrene grains produced giving water vapor, and cut in hot form in plate share after removing the r				
	> For thermal insulation of walls in buildings,				
	> For thermal insulation of sloped and terrace roofs in buildings,				
	> For thermal insulation of furnitures in buildings,				
Fields of Use	> For thermal insulation of ceilings in buildings,				
Insulation Purpose Usage Fields of EPS Products	> For thermal insulation of outbuildings in buildings,				
	> For thermal insulation of impact sound in floating furnitures in buildings,				
	> Creating multi-covered elements in air sound insulation in buildings (after special processing),				
	> For thermal insulation of cold storage facilities,,				
	> Pipe heat insulation,				
	> Thermal insulation used in coops.				
	> In dilatation joints,				
	> In production of lightweight construction blocks (light brick, block, etc.),				
	> For production of floor tiles,				
Other Purpose	> For production of EPS granule concrete and insulation plaster,				
Products	> As filler in producing door,				
	> For production of prefabricated light concrete components,				
	> For tank, reservoir insulation,				
	> For production of composite (multi-layered finished) sheets.				
In Special Engineering Structures	> In production of pontoon (floating marina),				
	> In production of highways in colder regions,				
	> To increase ground strength by filling loose surfaces,				
	> Used in dilatation joints in bridges.				

	> In all packaging industry,		
	> For the production of lifejackets and lifebuoys for ships,		
In Other Works	> For the production of sailboards,		
	> For the construction of small marine boats,		
	> Used for decoration works.		
Characteristics and Advantages	> Resistant to environmental conditions, long lasting.		
	> Its density can be changed in a wide range and thus all of its features can be controlled over a wide range as desired.		
	> Its water absorption is very small.		
	> According to various heat insulation material, both during and after production phase, it is environment friendly (does not contain ozone layer damaging CFCS etc., does not cause global warming directly, a recyclable material).		
	> It has a very good shock absorption feature.		
	> It is resistant against bacteria growth.		
	> It can be produced as desired, with the easy of application.		

Technical Specifications	Basic Characteristics	Unit	Declaration	Adapted Technique Specification (TS EN 13163)
	Thickness	mm	T2	TS EN 823 ±2
	Thermal Conductivity	W/ mK	0.032	TS EN 12667 max. 0.038
	Thermal Resistance- for 30 mm thickness	M²K/W	0.9375	TS EN 12667 min. 0.9375
	Thermal Resistance– for 40 mm thickness	M²K/W	1.25	TS EN 12667 min. 1.25
	Thermal Resistance– for 50 mm thickness	M²K/W	1.5625	TS EN 12667 min. 1.5625
	Behavior Against Fire	-	Е	EN 13501-1 E
	Compressive Stress at 10% Deformation	-	NPD	TS EN 826 -
	Deformation under Specified Compressive Load and Temperature Conditions	-	NPD	TS EN 1605 -
	Water Suction	_	NPD	TS EN 12087 -

Ambalaj	Product Dimensions (m <sup>3</sup> )			
	0,225	0,240	0,245	0,250

## [Y YÖN YAPI MÜHENDİSLİK A.Ş.]

Fener Mah. Fener Kaynak Sok. No: 7 Fenerköy - Silivri / İSTANBUL Tal: 0212 597 88 80 • Faks: 0212 597 88 40 bilgi@isolion.com.tr

