




twe group
smart nonwoven
solutions

 HOME · ISO PRO's

Product characteristics

	 HOME · ISO	MINERAL WOOL	PIR/PUR
Composition	100% polyester fibres, thermally bonded – no binders used	Glass fibres, mineral wool fibres, chemical bonded	Polyisocyanurate foam
Product colour	White	Yellow – brown	Cream – blue – yellow
Density	12 kg/m ³	22-250 kg/m ³	30-40 kg/m ³
Thickness range	40 – 180 mm	25 -220 mm	10 – 200 mm
Dimensional stability	Length/width : <=1%	<= 1%	<= 2%
Dimensional stability	Thickness : =<5% (24h @ 70°C) (increase)	<= 1% (decrease)	<= 6% (decrease)
Insulation value (Lambda)	0.030 – 0.040	0.032 – 0.040	0.023 – 0.028
Ageing	Lambda testing on going (climate chamber – up to 60 years)	Lambda testing on going (climate chamber – up to 60 years)	Lambda testing on going (climate chamber – up to 60 years)
Mechanical resistance	>1500 N / 10cm No carrier needed to support	+/- 30 N / 10cm	> 8 kN / 10 cm
Fire resistance	B, S2, d0 M1	A1 / A2	C – F

Health and safety aspects

		MINERAL WOOL	PIR/PUR
Toxic materials	100% fibres, thermobonded – no binders used	Chemicals used, no carcinogen classification	100% chemicals
Dust generation	No respirable dust generation < 0.01% of respirable particles < 10 mu	Cutting and handling creates dust	No respirable dust generation
Recyclability	100% recyclable	Primarily disposed as industrial waste	Not easily recyclable
% of recycled material	Up to 70%	Up to 70%	0%
Skin irritation	Not irritating, no PPE's necessary (gloves, mask, glasses,...)	Skin irritant (R38)	No relevant info at hand
Indoor air quality	No chemicals added, Ökotex 100, class I	Release VOC's and formaldehyde present	Release VOC's and formaldehyde present



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