



ISINAC

WH

PRODUCT SPECIFICATION SHEET CLOSED CELL POLYETHYLENE FOAM

Physical Properties	Test Method	Unit	Typical Physical Properties
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006		25
Compressive Strength Vertical @ 25% Vertical @ 50%	ASTM D3575-08 Suffix D ISO 7214:2007	KPa	7 12
Compressive Strength 25% (4th compression) 50% (4th compression) 70% (4th compression) (100mm/min compression speed)	ISO 3386 1986 part 1 DIN 53577	KPa	3 7 2 5
Compression Set	ASTM D3575-08 Suffix B (50% Compression) ISO 1856:2000 (25% compression)	%	< 30 < 20
Cell Size	BS 4443/1 Met.4	Cells/25mm	< 10
Fire-test-response Characteristics (1) Transportation	EN 45545-2 EN 45545-2 EN 45545-2	R10 R1 R7	HL1-3 - Floor composites HL1 - Interior vertical surfaces HL1 - External body shell
Automotive	DIN 54837	-	S3, SR2, ST2
Building & Construction	FMVSS 302 DIN 4102 EN 13501-1	Class Class	Pass B1 B-s1-d0 for 20-30mm, B-s2-d0 for 40-100mm
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Kg/m2	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Volume %	< 5
Thermal Conductivity @ 23°C @ -5°C	ASTM D3575-08 Suffix V ISO 8301	W/mK	0.104 0.082
Thermal stability (24hrs at 70°C)	ASTM D3575-08 Suffix S ISO 2796	%	< 3
Tensile Strength @ Peak	ASTM D3575 Suffix T ISO1798	KPa	130
Tensile Elongation	ASTM D3575 Suffix T ISO1798	%	60
VOC Emissions	AFNOR NF EN ISO 16000-9	Class	A+
Working temperature	-	°C	-60 +80
Airflow Resistance	UNI EN 29053:1994	Pa.S/m3 = Rayls/m2	510,000 (25mm) 2,785,000 (50mm)
Fungi Resistance of Insulation materials and facings	ASTM C1338(2008)	-	Pass
Acoustic Absorption	EN ISO 354:2003	α^w	Acoustic Class 25mm D 40mm C 50mm B 60mm A 100mm A
Airborne Sound Insulation	EN ISO 10140-2	Rw (dB)	50mm Rw13 60mm Rw16 100mm Rw18