TECHNICAL DATA SHEET

NATURCELL 45
Polyethylene Foam
Density 45 Kgs/m3

Physical Properties	Test Method	Unit	Typical Physical properties
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006	kg/m3	45
Cell Size	BS 4443/1 Met.4	Cells/25mm	≥42
Compressive Strength Vertical@10% Vertical@25% Vertical@50% (100 m/min vitesse de compression)	ASTM D3575-08 Suffix D ISO 7214:2007	kPa kPa kPa	60 80 140
Compressive Strength Vertical@25% (4th compression) Vertical@50% (4th compression) Vertical@70% (4th compression)	ISO 3386 1986 part 1 DIN 53577	kPa kPa kPa	33 100 260
Compression Set	ASTM D3575-08 Suffix B (50% compression) ISO 1856:2000 (25% compression)	%	< 20 <10
Compressive Creep	ASTM D3575-08 Suffix BB 168 hrs	%	< 5 (2.5 psi / 17,5 kg/dm²)
Compressive Creep	ASTM D3575-08 Suffix BB 1000 hrs	%	<10 (3 psi / 21 kg/dm²)
Thermal Stability	ASTM D3575-08 Suffix S ISO2796	%	< 2
Tensile Strength @ peak **(MD/CD)**	ASTM D3575-08 Suffix T ISO 1798:2008	kPa kPa	296 179
Tensile Elongation **(MD/CD)**	ASTM D3575-08 Suffix T ISO 1798:2008	%	27 28
Tear Strength **(MD/CD)**	ASTM D3575-08 Suffix G	N/cm	19 16
Water Absorption	Suffix L ISO 2896:1986	Volume %	< 3
Fire-test response Characteristics (1) **Transportation** **Automotive**	FMVSS 302	-	Pass

NOTICE : The data presented for this product is for unfabricated polyethylene foam product. While values shown are typical of this product, they should not be construed as specification limits. AMC Industrie makes no warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, with respect to any product, information or recommendations referred to herein, and shall not be liable for any loss or damage, directly or inderectly, related to such product, information or recommendations or for consequential or incidental damages. Usershould test each application to determine suitability of the product for the intended use.

(1) These numerical laboratory fire-test response characteristics are not intended to reflect hazards presented by this material under actual fire conditions.