



Excel Packaging & Insulation Co. Ltd

The family run specialist manufacturer of custom-made protective packaging.

Envirafoam[®] R

PRODUCT SPECIFICATION SHEET

CLOSED CELL POLYETHYLENE FOAM

MINIMUM 55% EXTERNAL PRE-CONSUMER RECYCLED CONTENT.

MINIMUM 10% INTERNAL RECYCLED CONTENT

Physical Properties	Test Method	Unit	Value
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006	Kg/m ³	24
Compressive Strength Vertical @ 25% Vertical @ 50% (100mm/min compression speed)	ASTM D3575-08 Suffix D ISO 7214:2007	KPa	40 90
Compressive Strength 25% (4th compression) 50% (4th compression) 70% (4th compression) (100mm/min compression speed)	ISO 3386 1986 part 1 DIN 53577	KPa	25 80 200
Compression Set	ASTM D3575-08 Suffix B 50% Compression	%	< 10
Compressive Creep (1psi - 7kg/dm ²)	ASTM D3575-08 Suffix BB 168 hrs	%	< 10
Compressive Creep (1psi - 7kg/dm ²)	ASTM D3575-08 Suffix BB 1000 hrs	%	< 15
Cell Size	BS 4443/1 Met.4	Cells/25mm	≥ 21
Tensile Strength @ peak (MD/CD)	ASTM D3575-08 Suffix T ISO 1798: 2008	KPa	180 150
Tensile Elongation (MD/CD)	ASTM D3575-08 Suffix T ISO 1798: 2008	%	68 58
Thermal Conductivity	ASTM C-177 ISO 8301	W/mK	0,055
Water Absorption	ASTM D3575-08 Suffix L ISO 2896: 1986	Volume %	< 3
Thermal Stability (24hrs at 70°C)	ASTM D3575-08 Suffix S ISO2796	%	< 2
Tear Strength (MD/CD)	ASTM D3575-08 Suffix G	N/cm	15 13
Fire-test response Characteristics (1) Transportation Automotive	FMVSS 302	-	Pass
Working temperature	-	°C	-60 +80

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

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