



Excel Packaging & Insulation Co. Ltd

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

Envirafoam[®] WP (Fibrease[™] C80/30-25)

PRODUCT SPECIFICATION SHEET

Characteristics	Value	Tolerance	Note
Density	30 kg/m ³	± 5 %	ISO 845
Thickness	25 mm		± 2 mm
Format	2350 x 1150 mm		± 5 mm
Pulp content	80 %	± 0,8 % units	FSC-certified
Polymer content	20 %		PE/PP
IFD (@ 65 % indentation)	482 N		ASTM-D 3574
Hardness (40 %)	79 N		ISO 2439 Method B
Compression Set	30,5 %		ISO 1856 Method C1
Thermal conductivity	0,036 W/mK		ISO 8302

Storage

Store at a maximum RH of 75% for a maximum of one year. Storage in up to 90% RH is tolerated for shorter periods if the material is kept at a maximum of 75% RH in between. Material should be stored on pallets without touching the floor. For optimal protection, keep away from UV-light and cover to withstand dust. If exposed to light, material will change colour, which does not influence the technical performance.

Converting & Formation

The material can be sawed, CNC-cut, die-cut, waterjet-cut or milled into specific designs, as well as split/skived or convoluted. Water-based adhesives can be used for assembly. For best result, it is recommended to use toothless blades, whereas blades should be sharpened regularly to eliminate flaking from the process.

With some conversion methods, flaking from the material may occur (see Handling & Safety on how to handle if considered an issue) and reach out to Fibrease team to discuss the process set-up.

Handling & Safety

Some fine pulp flakes may loosen during handling or converting of the material. It is recommended to handle the material in a well-ventilated area and to wear a face mask if any of the following issues arise; eye irritation, burning, tearing, redness, itching, irritation to the upper respiratory system or aggravation of pre-existing respiratory conditions or allergies. Additionally, directed suction hoods can be installed.

Keep the workplace clean from dust accumulations, since high concentration of cellulose dust may cause dust explosions. The material can ignite at high temperature, or after exposure to open fire.

Recyclability

The material is recyclable in general purpose paper/board-streams.

¹ After 2.5 h, sample size: 170 x 220 mm, measurement and conditioning at 23°C, 50% RH

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