

Wax and PFAS-free OGR for high performance Molded Fiber Products

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PakItGreen

No Wax

No PFAS

No AKD

Dual Barrier Performance

- A single wet-end addition delivers oil, grease and water resistance
- No wax additives, no AKD
- Simpler chemistry means fewer functional additives to manage
- Easy Application

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Wax Free benefits- More Uptime & Lower Rejects

- Wax deposits cause plugging and impaired drainage
- Plugged molds mean inconsistent quality and downtime for cleaning and maintenance
- Wax-free chemistry minimizes those deposits, stabilizes the process and reduces maintenance



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Technology Features

What it is

PFAS free, Acrylate Emulsion, Recyclable and FDA approved

Specs

Colorless transparent liquid, 15% ± 2% solids, pH 4.0 to 6.0, slightly cationic

Dosage

4 to 6% on OD pulp, also needs a special fixative @ 1-2% on OD pulp to optimize the dosage and performance

Application Points

-Wet end
-Spray (Under trials)

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Application Details

1

Pulper / refiner

Refine pulp to 25 to 28° SR

2

Adjust pH

Adjust slurry pH to 6.0 to 7.0

3

Mixing chest

Add this at 4-6% of OD pulp and stir 5 to 10 minutes: no AKD needed

4

Supply tank to line

Add a special Fixative @ 0.5-2% for improved performance and dosage optimization

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Machine Trial Result

S.No	OGR	Dosage	AKD	Retention Aid	Drainage Aid/Special Fixative	Hot Oil 65 C/30 m	Hot Oil 85 C/30	Hot Water 100 C/30m
1	Wax-Control	5%	2%	0.1%	0.1%	Pass	Fail	Pass
2	5712 (Non Wax)	5%	0%	0%	1%	Pass	Pass	Pass
3	5712 (Non-Wax)	4%	0%	0%	2%	Pass	Pass	Pass
4	5055 (Wax)	5%	2%	0.1%	0.5%	Pass	Fail	Pass
5	5055 (Wax)	3%	1%	0.1%	1 %	Pass	Fail	Pass

Proven in commercial production

- Validated in commercial-scale trials across Asia, Europe and North America
- Suitable in different molded fiber machines and fiber furnish compositions
- Excellent wet-end compatibility, stable runnability and improved OGR performance at high temp



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A complete range of additives

Functional additives

- OGR- Wax/Wax free Wet-end & Spray
- Water Resistance- AKD

Performance additives

- Fixative/DSR (Unique Chemistry)
- Wet Strength Resin
- Retention Aid
- Water-based Defoamer
- Biocide
- Defoamer



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THANK YOU!

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