

## Metallyte™ MM688 and MM658 films

Replace laminates in high-speed HFFS packaging applications

### Benefits

- outstanding packaging performance for high- and variable-speed HFFS applications
- moisture, flavor and aroma barriers keep products tasting and smelling fresh
- structure simplification due to excellent single film properties
- high gloss white or brilliant metal appearance for product promotion and shelf-appeal
- ease of conversion due to protection of metal by a printable coating (MM688) or under the sealant layer (MM658)



Metallyte™ MM688 and MM658 films are recommended for monoweb applications and can be printed on the acrylic surface.

#### Protection

- good flavor and aroma barrier to keep products tasting and smelling fresh, and prevent unwanted external odor or pack-to-pack contamination
- the protected metal layer provides moisture barrier to extend product shelf-life

#### Performance

- very low temperature seal (VLTS) coating enables high HFFS speeds for excellent packaging line performance
- low minimum seal temperature (MST) provides a broad operating window for robust packaging performance on variable-speed packaging equipment

#### Promotion

- high gloss and good film stiffness provide excellent brand visibility on the store shelf
- Outside metal appearance with MM688 and high gloss white appearance with MM658 films



Metallyte™ MM688 and MM658 biaxially oriented polypropylene (OPP) films feature Jindal Films' very low temperature seal (VLTS) coating, which delivers outstanding performance in demanding high- and variable-speed horizontal form fill and seal (HFFS) packaging applications. Coated surfaces applied on both side of the metallised base films enables consistent machinability, excellent graphics and barrier to moisture, flavors and aromas. Even better, this performance and protection come in a single film, so lamination is no longer required in order to achieve the desired moisture barrier and product protection. This allows producers to lightweight their packaging while maintaining product shelf life and enabling further distribution.

MM688 (clear) and MM658 (white) films are ideal for:

- high-speed packaging lines
- HFFS packaging lines where accurate heat control is a problem
- HFFS packaging lines where dwell times vary due to frequent machine speed changes
- smaller pack formats

Metallyte™ MM688 and MM658 films deliver excellent performance, protection and promotional opportunities for food and non-food packaging applications, including:

- biscuits, baked goods, crackers and snack bars
- sweet and chocolate confections
- household, health, beauty aid products



## Count on Jindal Films

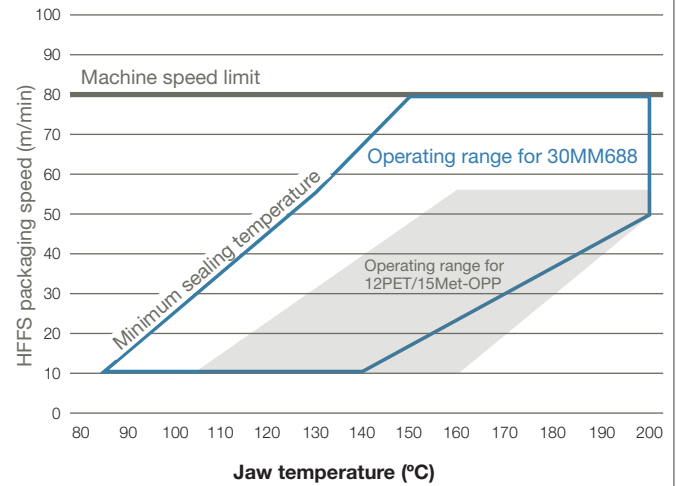
Jindal Films is a leading global OPP films supplier with the broadest range of metallized films for the flexible packaging market. If you're looking to develop innovative flexible packaging solutions, try Metallyte™ films from Jindal Films.

**Contact your Jindal Films representative for more information**

[www.jindalfilms.com](http://www.jindalfilms.com)

[info@jindalfilms.com](mailto:info@jindalfilms.com)

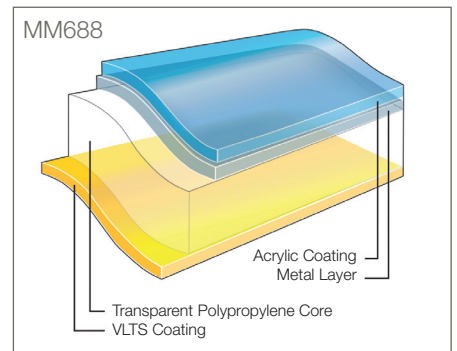
## High-speed horizontal operating window (HFFS)



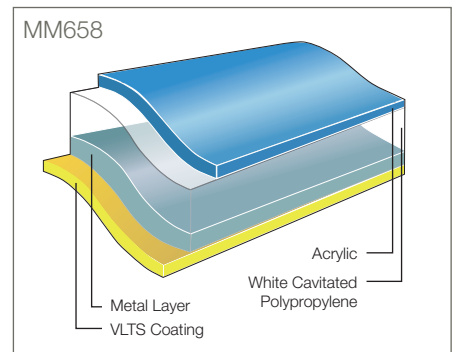
**MST:** seal temperature required to achieve seal strength >250g/25mm

**Laboratory test conditions:** Super Jaguar machine from Record, with optimum adjustments. Crimp jaws in transversal direction. Cut-off length: 200 mm.

Jindal Films data



Film structure



Film structure

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