

# Hunthumber™ JMV240H

## Adhesive Resin

### Description

Hunthumber™ JMV240H resins are acid-anhydride-modified polyolefin resin. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

### Typical Characteristics

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Hunthumber™ JMV240H resin exhibits physical properties similar to ethylene-vinyl acetate resin (EVA) with the similar density and melt index.

#### Applications

Hunthumber™ JMV240H resin is specifically designed to provide high adhesion to both metals and polyolefins when converted into film form and used as a thermal lamination film. It has a low coefficient of friction for easy film handling and provides strong bonds that fail cohesively.

Hunthumber™ JMV240H resin can be utilized in the following co-extrusion processes:

- Blown film

### Typical Properties

Properties	Test Method(s)	Typical Value	Unit
Density	ASTM D792 ISO 1183	0.939	g / cm <sup>3</sup>
Melt Flow Index(190°C/2.16kg)	ASTM D1238 ISO 1133	2.1	g / 10min
Melting Point	ASTM D3418 ISO 3146	95	°C
Vicat Softening Point	ASTM D1525 ISO 306	69	°C

### Adhesive Evaluation

The performance of any adhesive resin should be evaluated within the context of the application. The adhesive is designed to bond materials that would not ordinarily adhere to each other. In most cases, peel strength is used as a measure of performance. Although this is a convenient test, peel strength is affected not only by adhesion, but also by peel angle, separation rate, temperature, and tensile and modulus properties of the materials, and often by the time elapsed since the formation of the bond. Post-treatment of the multi-layer structure, such as heat sealing, thermoforming or orientation can also affect peel strength.

## Processing Information

### Maximum Processing Temperature

235°C (455°F)

### General Processing Information

**Hunthumber™ JMV240H** resins have low softening points, it is a good idea to run the rear of the extruder as cool as possible, then build quickly to the melt temperature. Water cooling of the screw and/or hopper feed throat may help avoid bridging problems. We suggest that the maximum melt temperature be limited to 235C (455F) to guard against overheating the EVA. If adhesion results are adequate, we suggest evaluating even lower melt temperatures.

In the event of a brief interruption during the extrusion processing, operating the screw at a low speed is essential. Before extended shutdowns, it's necessary to thoroughly purge the **Hunthumber™ JMV240H** resins from the extruder using polyethylene and maintain the processing temperature unchanged during purging..

## Storage Condition

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**Hunthumber™ JMV240H** resins should be stored under dry and cool conditions. Improper storage conditions may cause degradation and have consequences on physical properties of the product.

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See MSDS for Health & Safety Considerations.