

Hunthumber™ JMV240

Adhesive Resin

Description

Hunthumber™ JMV240 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™ JMV240 resin exhibits physical properties similar to ethylene-vinyl acetate resin (EVA) with the similar density and melt index.

Applications

Hunthumber™ JMV240 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™ JMV240 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	0.938	g / cm ³
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™ JMV240 resins have low softening points; therefore, it is advisable to operate the rear of the extruder as cool as possible and then rapidly increase to the melt temperature. Cooling the screw or the hopper feed throat with water may help prevent bridging problems. We recommend limiting the maximum melt temperature to 235°C (455°F) to protect the EVA from overheating. If the adhesion results are satisfactory, evaluating even lower melt temperatures is suggested.

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™ JMV240** resins from the extruder using polyethylene and maintain the processing temperature unchanged during purging.

Storage Condition

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Hunthumber™ JMV240 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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Due to the product usage conditions and methods, as well as the referenced information being beyond our control, Hunthumber explicitly states that it assumes no responsibility whatsoever for any results obtained or arising from the use of the product or reliance on such information; it does not make any warranty of fitness for a particular purpose, warranty of merchantability, or any other express or implied warranty concerning the goods described or the information provided herein. The information provided here pertains only to the specific product designated and may not be applicable when the product is used in combination with other materials or in any process. The user should conduct thorough testing before commercializing any application. The content herein does not constitute a license to practice under any patent and should not be construed as an inducement to infringe any patent. The user is advised to take appropriate measures to ensure that any proposed use of the product will not result in patent infringement.

See MSDS for Health & Safety Considerations.