

## Hifax EP5 10/60 M Bianco

Polypropylene powder used for field-joint applications at high temperatures

The *Hifax EP5 10/60 M Bianco* resin has high thermal stability and offers excellent adhesion to polar materials (i.e. epoxy resin, steel, etc.). This grade is produced using LyondellBasell's proprietary *Catalloy* technology.

LyondellBasell developed *Hifax EP5 10/60 M Bianco* to address the higher temperature demands of customers seeking alternative solutions to three layer polyethylene systems (3LPE). This material provides good compatibility with a wide range of fusion-bonded epoxies.

Our comprehensive portfolio of anti-corrosion coating (ACC) resins is used by customers to protect and insulate oil and gas pipelines in both on-shore and off-shore projects.

With the addition of the new resins for field-joint applications: *Hifax EPR 60/M Bianco*, *Hifax CA 197 J White* and *Hifax EP5 10/60 M Bianco*; LyondellBasell has become a full system supplier in adhesive, topcoat and field-joint coating materials.

*Hifax EP5 10/60 M Bianco* can be applied by either flocking or flame-spray and provides the option to operate at temperatures between -20 °C to +110 °C. This field-joint powder has also the potential to be used as an adhesive layer in three layer polypropylene (3LPP) and multi-layer polypropylene (PP) systems.

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### Features and Benefits

- Compatible with a wide range of fusion-bonded epoxies
- High melt flow rate for easy application
- Excellent OIT (> 50 minutes at 220 °C)
- Excellent ESC resistance
- Outstanding resistance to UV and thermal aging
- Superior sagging resistance

*Hifax EP5 10/60 Bianco* pellet is used by Pipeline Induction Heat Limited to produce their PP tape-wrap field-joint coating.



Flame-spray System. Photo courtesy of Eupec France



Tape-wrap System. Photo courtesy of PIH - Burnley (UK)

For more information, please contact us at [pipe@lyondellbasell.com](mailto:pipe@lyondellbasell.com) or visit <http://polymers.lyondellbasell.com>

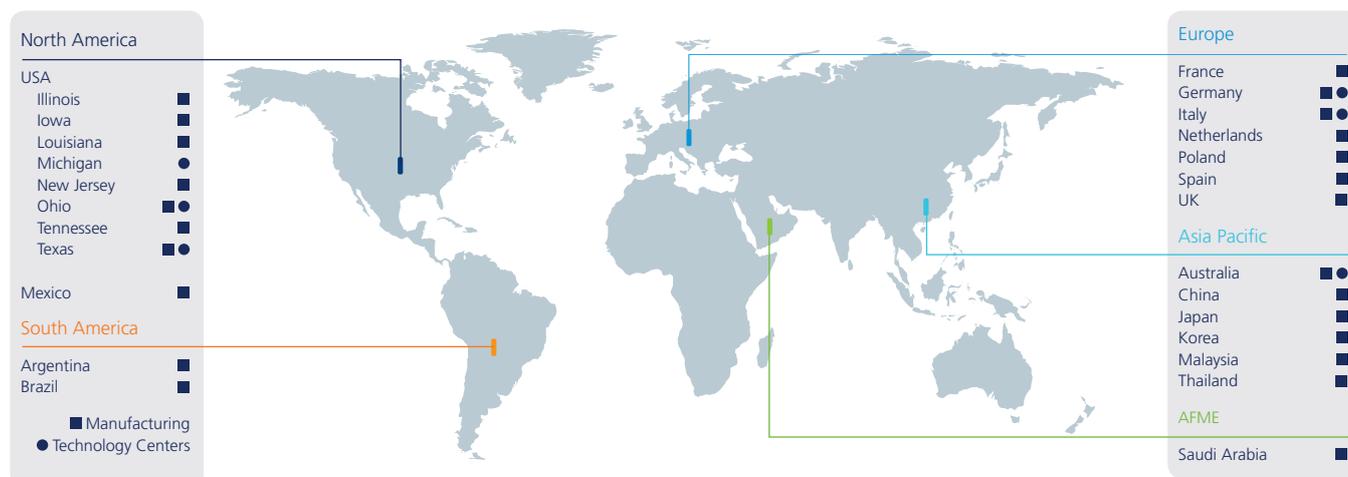
Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT. This product(s) may not be used in: (i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor. (iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) lead, asbestos or MTBE related applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification. Users should review the applicable Material Safety Data Sheet before handling the product.

# About LyondellBasell

LyondellBasell is one of the world's largest plastics, chemical and refining companies. We are the largest producer of polypropylene and polypropylene compounds; a leading producer of propylene oxide, polyethylene, ethylene and propylene; a global leader in polyolefins technology; and a producer of refined products, including biofuels.

LyondellBasell products and technologies are used to make items that improve the quality of life for people around the world including packaging, electronics, automotive components, home furnishings, construction materials and biofuels.

## Global Reach



Owned or operated by LyondellBasell, its subsidiaries and/or joint ventures

## Our Product Lines And The End Markets We Serve...

Olefins & Polyolefins	Intermediates & Derivatives	Refining	Technology
<p>– Americas – Europe, Asia &amp; International</p>			
<p><b>Key Products</b></p> <ul style="list-style-type: none"> <li>Ethylene</li> <li>Propylene</li> <li>Polyethylene</li> <li>Polypropylene</li> <li>Catalloy Process Resins</li> <li>Polypropylene Compounds</li> <li>Polybutene-1</li> </ul>	<p><b>Key Products</b></p> <ul style="list-style-type: none"> <li>Propylene Oxide</li> <li>Styrene Monomer</li> <li>PG and PGE</li> <li>Acetyls</li> <li>Oxyfuels</li> <li>Ethylene Oxide</li> <li>EG and EOD</li> </ul>	<p><b>Key Products</b></p> <ul style="list-style-type: none"> <li>Gasoline</li> <li>Diesel</li> <li>Olefins Feed</li> </ul>	<p><b>Key Products</b></p> <ul style="list-style-type: none"> <li>Process Licensing</li> <li>Catalyst Sales</li> <li>Technology Services</li> </ul>
<p><b>End Uses</b></p> <ul style="list-style-type: none"> <li>Food Packaging</li> <li>Textiles</li> <li>Automotive</li> <li>Appliances</li> <li>Films</li> <li>Flexible Piping</li> </ul>	<p><b>End Uses</b></p> <ul style="list-style-type: none"> <li>Insulation</li> <li>Home Furnishings</li> <li>Adhesives</li> <li>Consumer Products</li> <li>Coatings</li> </ul>	<p><b>End Uses</b></p> <ul style="list-style-type: none"> <li>Automotive Fuels</li> <li>Aviation Fuels</li> <li>Heating Oil</li> <li>Industrial Engine Lube Oils</li> </ul>	<p><b>End Uses</b></p> <ul style="list-style-type: none"> <li>Polyolefin and Chemical Manufacturing Processes</li> </ul>