

Moplen grades for melt blown applications

Finer, cleaner, faster – Providing high throughput and barrier performance



LyondellBasell has extended its portfolio of grades based on the last generation of *Avant* ZN non-phthalate catalyst for melt blown applications.

These products including, HP560W, HP560X and HP560Y, are setting new references in terms of processability and performance. Customer trials have shown that the very narrow molecular weight distribution (MWD) of these grades allows filament diameter to be reduced by 20% compared with standard grades. The finer filaments that result deliver a markedly improved barrier performance, which is favored for applications intended for filtration, as well as soft-touch characteristics that add value to sanitary products.

The use of the latest generation of non-phthalate catalyst opens the door for a range of applications that require the purest of polypropylene grades.

Masterbatch flexibility

High processing temperatures, in fact, limit the kind of masterbatch solutions that can be used with conventional melt blown resins because of potential heat degradation of their components. In particular, they preclude the use of organic pigments as coloring agents.

The lower processing temperature possible with the use of the new resins now allows a far wider range of masterbatch agents to be used including organic pigments, enabling converters to benefit from their superior properties.

Resin Properties

Properties	Method	Moplen HP560W	Moplen HP560X	Moplen HP560Y
Morphology	-	Pellets	Pellets	Pellets
MFR (g/10 min)	ISO 1133	450	800	1200
MWD	-	Very narrow	Very narrow	Very narrow

Note: Typical properties, not to be considered as specifications

ABOUT US

LyondellBasell (NYSE: LYB) is one of the largest plastics, chemicals and refining companies in the world. Driven by its employees around the globe, LyondellBasell produces materials and products that are key to advancing solutions to modern challenges like enhancing food safety through lightweight and flexible packaging, protecting the purity of water supplies through stronger and more versatile pipes, improving the safety, comfort and fuel efficiency of many of the cars and trucks on the road, and ensuring the safe and effective functionality in electronics and appliances. LyondellBasell sells products into more than 100 countries and is the world's largest producer of polypropylene compounds and the largest licensor of polyolefin technologies. In 2018, LyondellBasell was named to Fortune magazine's list of the "World's Most Admired Companies."

For more information, visit lyb.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. Users should review the applicable Safety Data Sheet before handling the product. This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices; (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices; (iii) 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; (iv) tobacco related products and applications, electronic cigarettes and similar devices; (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems. The product(s) may not be used in: (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices; (ii) applications involving permanent implantation into the body; (iii) life-sustaining medical applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification. In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

Moplen is a trademark owned or used by the LyondellBasell family of companies. *Moplen* is registered in the U.S. Patent and Trademark Office.

lyondellbasell
Advancing Possible