

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, HP560Y and HP560Z 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	Moplen HP560Z
Morphology	-	Pellets	Pellets	Pellets	Pellets
MFR (g/10 min)	ISO 1133	450	800	1200	1500
MWD	-	Very narrow	Very narrow	Very narrow	Very narrow

Note: Typical properties, not to be considered as specifications

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