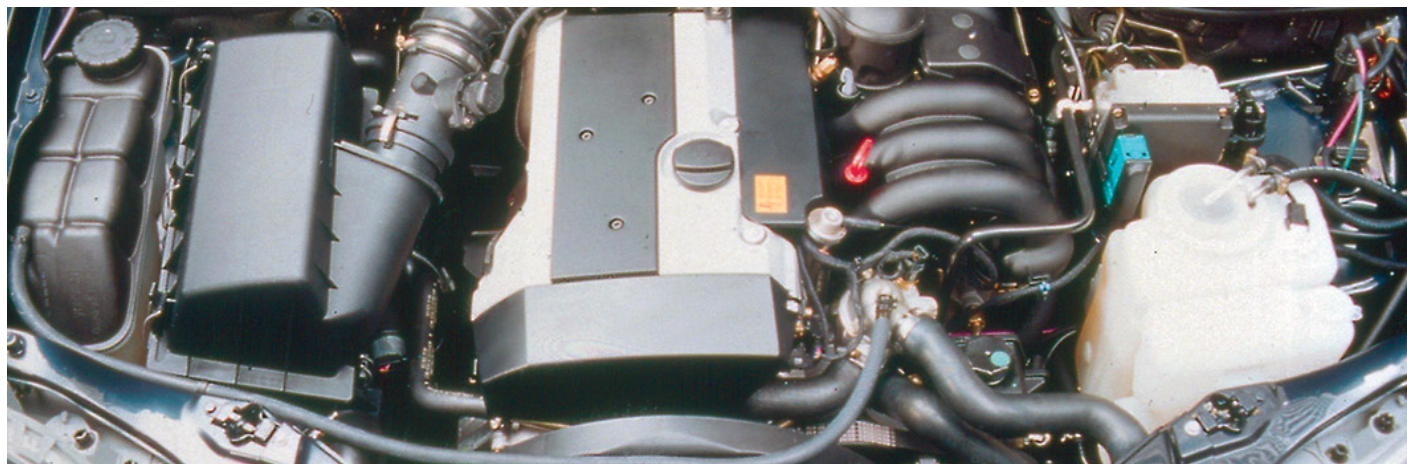


Moplen HP: 500S, 500V, 500W, 560W, 560X, 560Y, 560Z Metocene HM650V, MF650Y

High flow PP Homopolymer grades designed for compounding



The *Moplen* and *Metocene* portfolio of LyondellBasell provides several grades with high fluidity, designed to be used in compounding applications and in combination with short/long glass fibers and glass fabrics.

These resins, suited for injection molding, pultrusion processes, sheet molding and fibers dilution, meet rheology needs of that processes, keeping the advantages of the usage of PP, such as low density, low cost and recyclability.

They exhibit low level of oligomers, C-emissions, VOC and FOG, due to a reduced presence of low molecular weight materials and no usage (or reduced usage) of peroxide.

Suitable for thin walled injection molding. They are also used in compounding as flow modifiers/adjusters and as enhancer of flowability or stiffness.

They are also used as base materials for LGF (Long Glass Fiber) compound and in pultrusion technique due to high wettability of fibers, low final warpage.

Metocene MF650Y is an extremely high melt flow rate homopolymer resin with very narrow molecular weight distribution. It is suitable for compounding extrusion applications. This material is available as a free-flowing, low dust granule (flake) resin. This product contains no peroxide or peroxide decomposition by-products.

Another new grade, *Metocene* HM650V, is a metallocene-catalyzed homopolymer for compounding and injection molding with very high melt flow rate. *Metocene* HM650V has an excellent stiffness, outstanding organoleptic properties and a low warpage.

Product Benefits

- High flowability
- Narrow molecular weight distribution
- Good stiffness
- No or reduced peroxide, no nucleating agent
- Dimensional stability

Typical Applications

- Automotive parts: interior trims, under the hood
- Automotive compounding incl. glass fiber
- (Thin wall) injection molding
- Melt flow correction

Resin Properties

Physical properties	Method	Moplen HP500S	Moplen HP500V	Moplen HP500W	Moplen HP560W	Moplen HP560X	Moplen HP560Y	Moplen HP560Z	Metocene HM650V	Metocene MF650Y
Melt Flow Rate (230 °C/2.16 kg), g/10min	ISO 1113	40	120	150	450	800	1200	1500	150	1800
Density, g/cm ³	ISO 1183	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Mechanical										
Tensile Modulus, MPa	ISO 527-1,-2	1700	1400	1600					1450	-
Tensile Stress at Yield, MPa	ISO 527-1,-2	37	34	35					35	-
Elongation at Yield, %	ISO 527-1,-2	8	10	8					7	-
Impact Strength										
Charpy Impact Strength N. 23°C, kJ/m ²	ISO 179	3	2	2					-	-
Thermal										
Vicat Softening Temp. (A50), 9.81 N, oC	ISO 306	150	150	153					-	-
Thermal										
DSC Melting Point, oC	DSC	162	163	164	163	163	163	163	154	155

Note: Typical properties, not to be considered as specifications.

ABOUT US

As a leader in the global chemical industry, LyondellBasell strives every day to be the safest, best operated and most valued company in our industry. The company's products, materials and technologies are advancing sustainable solutions for food safety, access to clean water, healthcare and fuel efficiency in more than 100 international markets. LyondellBasell places high priority on diversity, equity and inclusion and is *Advancing Good* with an emphasis on our planet, the communities where we operate and our future workforce. The company takes great pride in its world-class technology and customer focus. LyondellBasell has stepped up its circularity and climate ambitions and actions to address the global challenges of plastic waste and decarbonization. For more information, please visit www.lyondellbasell.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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