



# SAFFRON GROUP

## mPE M 6040

### Product Specification

#### DESCRIPTION

mPE M 4040 is a second generation metallocene based Polyethylene with hexene as comonomer.

mPE M 4040 can be processed at high output rates with low extrusion pressure, low neck-in, excellent drawability and gauge control in comparison with conventional LLDPE and first generation metallocene based polyethylene. The high stiffness combined with excellent optical properties brings a significant down-gauging potential.

mPE M 4040 is a versatile resin that can be used in pure or in blend for the production of both monolayer and multilayer film. Main applications are: specialty film, hygiene film, embossed film, compounds and consumer and automatic packaging, such as produce bags, mailing and hygiene overwrap film.

#### CHARACTERISTICS

PROPERTY	METHOD	UNIT	TYPICAL VALUE
Density	ISO 1183	g/cm <sup>3</sup>	0.940
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	g/10 min	4.0
Melting temperature	ISO 11357	°C	126
Vicat temperature	ISO 306	°C	122

Values indicated are typical for this product. Density and MFR are properties routinely measured during "the standard quality control procedure". The other figures are generated by tests not included in the "standard quality control procedure", and are given for information only. Data are not intended for specification purpose.

#### PROCESSING

On a cast film line Lumicene® mPE M 6040 can be easily extruded in the following conditions:

- Melt temperature : 220 to 280°C
- Chill roll temperature : 20 to 80 °C

#### ADDITIVES

Antioxidant: yes  
PPA: No

FOR MORE INFORMATION :

SAFFRON GROUP • Georg-Wilhelm-Str. 181 • D-21107 Hamburg

Fon +49 (0) 40 55435542-0 • Fax +49 (0) 40 55435542-9 • info@saffron-group.com • www.saffron-group.com



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## BLOWN FILM PROPERTIES

These values have been measured on a 20 µm cast 1m.

PROPERTY	METHOD	UNIT	TYPICAL VALUE (*)
Tensile Strength at Yield MD/TD (**)	ISO 527-3	Mpa	14.5/14.7
Tensile Strength at Break MD/TD (**)	ISO 527-3	MPa	33/26
Elongation at Break MD/TD (**)	ISO 527-3	%	480/610
Elmendori MD/TD (**)	ISO 6383-2	N/mm	11/90
Dart test	ISO 7765-1	g	30
Haze	ISO 14782	%	5.5
Gloss 45°	ASTM D2457		86

(\*) Figures stated hereabove are obtained using laboratory test specimens produced at the following extrusion conditions: die gap = 250µm, chill roll temperature = 20°C, throughput = 7kg/h, melt temperature = 260°

(\*\*) MD: Machine Direction, TD: Transverse Direction

## Technical Disclaimer

The values reported in this technical data sheet are the results of tests carried out in accordance with standard test procedures in a laboratory environment. Actual properties may vary depending on batch and extrusion conditions. Therefore, these values should not be used for specification purposes. Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question, and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suitable for, and the information is applicable to, the user's specific application. Muntajat does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, expressed or implied, or allegedly arising from any usage of any trade or from any course of dealing, in connection with the use of the information contained herein or the product itself. The user expressly assumes all risks and liabilities, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Trademarks may not be used in any manner other than expressly authorized in a written agreement and no trademark or license rights of any kind are granted hereunder, by implication or otherwise.

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