

#### **POLYMERS**

# SABIC®MDPE F438J

Enhanced polyethylene for high performance flexible packaging

# PRODUCT DESCRIPTION

SABIC® MDPE F438J is a Butene Medium-density polyethylene resin typically designed for easy processing and specially formulated for optimum thermal stability at high temperatures used in blown extrusion. Blown film produced from SABIC® F438J exhibit good puncture resistance and High Tensile strength properties and tear strength. SABIC® F438J is TNPP free. This product is not intended for and must not be used in any pharmaceutical/medical applications.

# **TYPICAL APPLICATIONS**

SABIC® MDPE F438J resin is typically used for Heavy duty shipping sacks, Agricultural film, STRETCH HOOD and other film genera-purpose application.

# TYPICAL PROPERTY VALUES

TYPICAL VALUES(1)	UNITS	TEST METHODS
0.4	g/10 min	ASTM D1238
938	Kg/m3	ASTM D1505
2.4	g/µm	ASTM D1709
1.5	J	SABIC Method
>1000	Hrs	ASTM D1693B
31.5	MPa	ASTM D882
29	MPa	ASTM D882
480	%	ASTM D882
690	%	ASTM D882
17	MPa	ASTM D882
15	MPa	ASTM D882
394	MPa	ASTM D882
407	MPa	ASTM D882
	0.4  938  2.4  1.5  >1000  31.5  29  480  690  17  15  394	0.4 g/10 min  938 Kg/m3  2.4 g/μm  1.5 J  >1000 Hrs  31.5 MPa  480 %  690 %  17 MPa  15 MPa  15 MPa  MPa  MPa  MPa  MPa  MPa  MPa  MPa

CHEMISTRY THAT MATTERS

Elmendorf Tear Strength			
MD	31	9	ASTM D1922
TD	225	9	ASTM D1922
OPTICAL PROPERTIES			
Haze	69	%	ASTM D1003
Gloss			
At 45°	6	-	ASTM D2457

- (1) Typical values: not to be construed as specification limits.
- (2) Properties have been measured by producing 20 µm film with 2.5 BUR using 100% F438J

# **Processing Conditions**

SABIC® MDPEF438J is extrudable with conventional blown film extrusion equipment. Minor machine modifications may be required for optimum use.

#### HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet (<u>www.SABIC.com</u>).

Additional specific information can be requested via your local Sales Office." DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications.

#### **QUALITY**

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO 9001.

## **ENVIRONMENT AND RECYCLING**

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC Europe considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC Europe whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

#### STORAGE AND HANDLING

Polyethylene resins should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions, which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process Polyethylene resins within 6 months after delivery.

### **DISCLAIMER**

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY,

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