SAFFRON GROUP

FD0270 - Low Density Polythylene

Product Specification

DESCRIPTIONS

FD0270 is an additive free grade mainly recommended for the extrusion of thin film for light and medium duty applications.

PROPERTIES

The molecular structure of FD0270 makes it possible to produce very thin, clear and glossy films.

POLYMER PROPERTIES	VALUE	UNIT	TEST METHOD
Melt Flow Index	2.4	g/10 min.	ASTM D-1238
Density @ 23 ℃	0.923	g/cm3	ASTM D-792
Crystalline Melting Point	112	℃	ASTM E-794
Vicat Softening Point	96	℃	ASTM D-1525

FILM PROPERTIES	VALUE	UNIT	TEST METHOD
Tensile Strength @ Yield MD/TD	12/12	Mpa	ASTM D-882
Tensile Strength @ Break MD/TD	28/24	MPa	ASTM D-882
Elongation @ Break MD/TD	430/660	%	ASTM D-882
Tear Resistance MD/TD	90/70	N/mm	ASTM D-1922
Puncture Force	50	N/mm	Internal Method
Impact Strength, F 50	85	g	ASTM D-1709
Coefficient Of Friction	1.2		ASTM D-1894
Haze	5.5	%	ASTM D-1003
Gloss (@ 45º)	73		ASTM D-2457

(Film properties stated above have been obtained using 40 µm blown lms laboratory test specimens produced under following conditions: 45 mm screw with L/D = 30, die diameter 120 mm, die gap 1.56 mm, BUR 2.5:1).

FOR MORE INFORMATION :
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PROCESSING

FD0274 can be easily processed on all types of extruders to make blown or cast lms.
The melt temperature is suggested to be in the range of 140-150 °C.
The best properties of the blown lm are achieved at blow up ratios between 2:1 and 3:1.
To avoid blocking and shrinkage on the reel, temperature at the nip rolls and take-off should be kept as close as possible to the ambient temperature.
The recommended thickness range is from 20 µm to 100 µm.

APPLICATION

- Thin transparent lm
- Thin shrink lm
- Foam products
- Food packaging,
- Deep Freeze
- Lamination lm

HANDLING & STORAGE

Polyethylene products should be stored in their original packaging or in clean appropriate silos.
The products should be stored in a dry and well-ventilated area and should not be exposed to direct sunlight and/ or heat in any form since this may adversely affect their properties.
As a general rule, our products should not be stored for more than three months from receipt date.

SAFETY

Under normal conditions products do not present a toxic hazard through skin contact or inhalation. For detailed information please refer to the Safety Data Sheet.

NOT SUITABLE FOR PHARMACEUTICAL OR MEDICAL APPLICATIONS

FD0274 product is not suitable for pharmaceutical or medical applications.

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 speci cation 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 speci c use in question, and is further advised against relying on the information contained herein as it may relate to any speci c 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 speci c application. Muntajat does not make, and expressly disclaims, all warranties, including warranties of merchantability or tness 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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