

Product Data Sheet

ASPC MFI3713

شرکت پلیمر آریا ساسول (سهامی خاص)
ARYA SASOL POLYMER COMPANY



PRODUCT DESCRIPTION:

MFI3713 is a medium density polyethylene, which has a broad molecular weight distribution and high melt strength. This product specially designed for producing thin films with high tear resistance, good sealability, high strength and high draw down.

APPLICATIONS:

MFI3713 is recommended for blown film extrusion. This product is suitable for manufacture of high strength carrier bags and high quality thin films for uni/multi-wall packaging.

PRODUCT PROPERTIES:

Extruder temperature profile: 180-240°C

Frost line height: 6-8 times die diameter.

Blow Up Ratio: 3-5

Recommended film thickness: 10 to 50 µm.

Please note that, these processing conditions are recommended by producer (for 100% MFI3713 resin, not in the case of blending with any other compatible material) , but because of the many particular factors which are outside our knowledge and control, and may affect the use of product, no warranty is given.

PRODUCT SPECIFICATION:

Properties	Value ⁽¹⁾	unit	Test method
Physical Properties			
Density (23°C)	937	kg/m3	ISO 1183
MFI (190 °C /21.6Kg)	13	dg/min	ISO 1133
MFI (190 °C /2.16Kg)	0.1	dg/min	ISO 1133
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	735	MPa	ISO527-1,2
Max. Tensile Strength (MD)	46	MPa	ISO 527-1;3
Max. Tensile Strength (TD)	46	MPa	ISO 527-1;3
Tensile Strain at Break (MD)	550	%	ISO 527-1
Tensile Strain at Break (TD)	650	%	ISO 527-1
Elemendorf tear strength(MD)	210	mN	ISO 6383-2
Elemendorf tear strength(TD)	1100	mN	ISO 6383-2
Failure energy	7	J/mm	DIN 53373
Dart Drop Impact	120	g	ASTM D 1709
Thermal Properties			
Melting Point	127	°C	ISO 3146
Vicat Temp , (A50,50 °C /h , 10 N)	121	°C	ISO 306
<i>Additives :Antioxidant -Heat stabilizer</i>			

Notes:

(1) Typical Values: not to be construed as specifications limits.



(2) Properties are based on 20 μm blown film produced at a melt temperature of 220°C and 4 BUR using 100% MFI3713.

TOXICITY AND SAFETY:

For more detailed information on handling, storage, safety parameters, refer to relevant SDS of Components.

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Note: *this information is based on our current knowledge and experience .in view of many factors that may affect processing and application, this data does not relive processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.*

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