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ARYASASOL PETROCHEMICAL COMPANY

MEDIUM DENSITY POLYETHYLENE MDPE MFI3713

MDPE MFI3713 is a medium-density polyethylene with a broad molecular weight distribution and high melt strength, specifically designed for blown film extrusion. It is an ideal resin for producing thin films that require high tear resistance, good sealability, and excellent strength.

Producer	Characteristic Properties	Applications
AryaSasol	High Melt Strength	Carrier & Shopping Bags
	Broad Molecular Weight Distribution	Packaging Films
	Superior Tear and Tensile Strength	Industrial Films

Typical Properties

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

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.

تلفن - نمابر ۰۲۱ ۷۱۷۶۲
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