

HDPE – Interim Product Data Sheet

MF3701

Medium Density Polyethylene

SASOL
reaching new frontiers



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Sasol Polymers Middle East FZE

MDPE – Medium Density Polyethylene

Application

MF3701 is suitable for blown film extrusion rolls, sheet and bag making. It can be used as a blending resin for property modification. Recommended film thickness 10- 50µm.

Additives

Antioxidant

General information

MF3701 has been manufactured using Basell Lupotech G® licensed technology and the appropriate manufacturing parameters and hence is expected to be similar to Basell Lupolen® MDPE3721C grade.

Performance properties – MF3701

Test	Value	Unit	Test method
<i>Physical Properties</i>			
MFR (190°C/21.6kg)	13	g/10min	ISO 1133
MFR (190°C/2.16kg)	0.10	g/10min	
Density	0.937	g/cm ³	ISO 1183
<i>Mechanical Properties</i>			
Tensile strength at break MD	46	MPa	ISO 527-1-2-3
TD	46	MPa	
Tensile strain at break MD	550	%	
TD	650	%	
Tensile modulus	735	MPa	
Tear strength MD	210	mN	ISO 6383-2
TD	1100	mN	
Dart drop impact	>100	g	ASTM D 1709
<i>Thermal Properties</i>			
Melting point	127	°C	ISO 3146
Vicat softening temperature (A50, 50°C/h, 10N)	121	°C	ISO 306

Film Properties

The film properties have been measured on 20 µm blown film extruded at BUR of 4:1