

Adflex Q 100 F

Polyolefin
LyondellBasell Industries

Message:

Adflex Q 100 F is a thermoplastic polyolefin, which is mainly used by our customers for the extrusion of blown film. It is also suitable for sheet extrusion. Adflex Q 100 F features very high softness and very low modulus. It does not contain any slip or anti-blocking agents. Adflex Q 100 F is used for the production of soft hygienic film and heavy duty film, as well as for the modification of LDPE or LLDPE to increase mechanical characteristics, puncture resistance, and to allow further downgauging. It can be easily processed on conventional LDPE or LLDPE blown film lines.

General Information	
Features	Perforation resistance
	Workability, good
	Good flexibility
	Good tear strength
	Low temperature impact resistance
	Soft
Uses	Packaging
	Films
	Laminate
	Bags
	Pipe fittings
	Agricultural application
	Food packaging
	Shrinkable film
Forms	Particle
Processing Method	Double-Bubble Film
	Blow film
	Extrusion blow molding
	Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.60	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	30		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	10.0	MPa	ISO 527-2
Tensile Strain (Break)	> 400	%	ISO 527-2

Flexural Modulus	100	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-3/25
MD: 50 µm, blown film	90.0	MPa	ISO 527-3/25
TD: 50 µm, blown film	90.0	MPa	ISO 527-3/25
Tensile Stress			ISO 527-3/500
MD: Yield, 50 µm, blown film	7.50	MPa	ISO 527-3/500
TD: Yield, 50 µm, blown film	7.50	MPa	ISO 527-3/500
MD: Broken, 50 µm, blown film	40.0	MPa	ISO 527-3/500
TD: Broken, 50 µm, blown film	37.0	MPa	ISO 527-3/500
Tensile Elongation			ISO 527-3/500
MD: Yield, 50 µm, blown film	40	%	ISO 527-3/500
TD: Yield, 50 µm, blown film	40	%	ISO 527-3/500
MD: Broken, 50 µm, blown film	1000	%	ISO 527-3/500
TD: Broken, 50 µm, blown film	1000	%	ISO 527-3/500
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-20°C	No Break		ISO 180/1A
23°C	No Break		ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	40.0	°C	ISO 75-2/B
Vicat Softening Temperature	60.0	°C	ISO 306/A50
Melting Temperature	140	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm)	9		ASTM D2457
Haze (50.0 µm, Cast Film)	50	%	ASTM D1003
Additional Information			

Film properties obtained on blown film produced with laboratory line under internal standard conditions.

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