



Adflex Q 100 F

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Flexibility • Good Processability	• Good Tear Strength • Low Temperature Impact Resistance	• Puncture Resistant • Soft
Uses	• Agricultural Applications • Automotive Applications • Automotive Interior Parts • Bags • Blown Film	• Film • Food Packaging • Laminates • Packaging • Plastics Modification	• Rigid Packaging • Sheet • Shrink Wrap
Processing Method	• Blown Film • Calendering	• Extrusion • Extrusion Blow Molding	• Sheet Extrusion • Thermoforming

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.880	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.60	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	1450	psi	ISO 527-2
Tensile Strain (Break)	500	%	ISO 527-2
Flexural Modulus	14500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	2.4	ft-lb/in ²	
-4°F, Partial Break	52	ft-lb/in ²	
73°F	No Break		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	30		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	104	°F	ISO 75-2/B
Vicat Softening Temperature	140	°F	ISO 306/A50
Melting Temperature	288	°F	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 45.0 mil)	85		ASTM D2457

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Notes

¹ Typical properties: these are not to be construed as specifications.