Adflex Q 100 F

Advanced Polyolefin

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.

For regulatory information please refer to *Adflex* Q 100 F Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Blown Film, Double Bubble, Extrusion Blow Molding
Features	Good Flexibility, Low Temperature Impact Resistance, Good Processability, Good Puncture Resistance , Soft, Good Tear Strength, Low Transparency
Typical Customer Applications	Agriculture Film, Bags & Pouches, Barrier Film, Blown Film, Breathable Film, Collapsible Tubes, Double Bubble Shrink Film, Film Wrap, Food Packaging Film, Heavy Duty Packaging, Hygiene Film, Lamination Film, Stretch Hood, Surface Protection Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.88	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	0.6	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	10	MPa
Tensile Strain at Break	ISO 527-1, -2	> 400	%
Flexural modulus	ISO 178	100	MPa
Impact			
Notched izod impact strength	ISO 180		
(- 20 °C, Type 1, Notch A)		No break	
(23 °C, Type 1, Notch A)		No break	
Hardness			
Shore hardness (Shore D) *Note*: 15 seconds	ISO 868	30	
Thermal			
Melting temperature *Note*: ISO 11357-3		140	°C
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	40	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	60	°C
Optical			
Haze (50 µm)	ASTM D 1003	50	%
Gloss (45°, 50 µm)	ASTM D 2457	9	

Additional Properties

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

Tensile Young modulus, MD/TD, ISO 527-3, 25 mm/min, 50 µm: 90/90 MPa
Stress at Yield, MD/TD,ISO 527-3, 500 mm/min, 50 µm: 7.5/7.5 MPa
Elongation at Yield, MD/TD,ISO 527-3, 500 mm/min, 50 µm: 40/40 %
Stress at Break, MD/TD,ISO 527-3, 500 mm/min, 50 µm: 40/37 MPa
Elongation at Break, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 1000/1000 %

Notes

Typical properties; not to be construed as specifications.

LyondellBasell markets this product through the following entities:

- Equistar Chemicals, LP
- Basell Sales & Marketing Company B.V.
- Basell Asia Pacific Limited
- Basell International Trading FZE
- LyondellBasell Australia Pty Ltd

For the contact details of the LyondellBasell company selling this product in your country, please visit http://www.lyb.com/.

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

This product(s) may not be used in:

(i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or

(ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor.

(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) lead, asbestos or MTBE related applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

Release Date: 13 May 2013