

Adflex C 200 F

Advanced Polyolefin

Product Description

Adflex C 200 F is developed for the central layer of tough, transparent co-extruded cast-film structures. It combines transparency with high softness, a very high toughness even at low temperatures and an excellent compatibility with other polyolefins. It does not contain any slip nor anti-blocking agents. Typical applications of the Adflex C 200 F are co-extruded cast-film for food packaging, hygiene applications, surface protection where the outside layer can be any polyolefin homo or copolymer.

For regulatory information please refer to Adflex C 200 F Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Cast Film, Extrusion Coating, Extrusion Thermoforming
Features	High Clarity, Soft, Good Toughness, Low Temperature Toughness
Typical Customer Applications	Bags & Pouches, Barrier Film, Breathable Film, Film Wrap, Food Packaging Film, Lamination Film, Peelable Film, Stationery Film

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.89	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	6	g/10 min
Mechanical			
Tensile Stress at Yield	ISO 527-1, -2	8	MPa
Tensile Strain at Break	ISO 527-1, -2	500	%
Flexural modulus	ISO 178	220	MPa
Impact			
Notched izod impact strength	ISO 180		
(- 20 °C, Type 1, Notch A)		65	kJ/m ²
(23 °C, Type 1, Notch A)		No break	
Hardness			
Shore hardness (Shore D)	ISO 868	41	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	50	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	89	°C
Optical			
Haze (50 µm)	ASTM D 1003	8	%
Gloss (45°, 50 µm)	ASTM D 2457	47	

Additional Properties

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

Tensile Young modulus, MD/TD, ISO 527-3, 25 mm/min, 50 µm: 125/110 MPa
 Stress at Yield, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 8/8 MPa
 Elongation at Yield, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 26/23 %
 Stress at Break, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 30/24 MPa
 Elongation at Break, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 990/890 %

Notes

Typical properties; not to be construed as specifications.

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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/>.

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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.

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