

Adflex X 500 F

Advanced Polyolefin

Product Description

Adflex X 500 F is a thermoplastic polyolefin which has been developed for co-extruded cast film and injection moulding applications.

Adflex X 500 F features a high softness, a low modulus, high gloss and excellent clarity.

It has been especially developed as central layer of tough transparent co-extruded cast-film structures.

It can be blended with other transparent polyolefinic resins to improve the low temperature impact resistance maintaining the transparency of the film.

Adflex X 500 F can be processed on conventional PP cast film lines.

It is also suited for injection moulding applications where high transparency and good gloss combined with good flexibility is required like e.g. housewares and toys.

It does not contain any slip nor anti-blocking agents.

For regulatory information please refer to Adflex X 500 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	Cast Film, Extrusion Coating, Injection Molding
Features	High Heat Resistance , Low Temperature Impact Resistance, Good Processability, Medium Stiffness, High Transparency
Typical Customer Applications	Bags & Pouches, Breathable Film, Clear Containers, Food Packaging Film, Hygiene Film, Lamination 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	7.5	g/10 min
Mechanical			
Tensile Stress at Yield	ISO 527-1, -2	14	MPa
Tensile Strain at Break	ISO 527-1, -2	500	%
Flexural modulus	ISO 178	470	MPa
Impact			
Notched izod impact strength	ISO 180		
(- 40°C, Type 1, Notch A)		14	kJ/m ²
(- 20 °C, Type 1, Notch A)		65	kJ/m ²
Hardness			
Shore hardness D	ISO 868/ASTM D 2240	50	
<i>Note: 15 seconds</i>			
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	60	°C
Vicat softening temperature A/50	ISO 306	94	°C
Optical			
Haze (50 µm)	ASTM D 1003	13	%
Gloss (45°, 50 µm)	ASTM D 2457	>60	

Additional Properties

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

Notes

Typical properties; not to be construed as specifications.

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- 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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(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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