



Adflex KS084P

Advanced Polyolefin

Product Description

Adflex KS084P is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary *Catalloy* process technology. Adflex KS084P features a high melt flow and a low modulus. It is designed for many commercial and industrial extrusion applications.

For regulatory compliance information, see the Adflex KS084P Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Compounding, Cast Film, Extrusion Coating, Injection Molding
Features	Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), Good Flexibility, High Flow , Good Heat Seal, Heat Sealable, Low Temperature Impact Resistance, Good Puncture Resistance , High Strength , Good Toughness
Typical Customer Applications	Cast Film, Impact modification, Roofing Underlayment

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.89	g/cm ³
Melt flow rate (MFR) (230 °C/ 2.16 kg)	ISO 1133	30	g/10 min
Mechanical			
Tensile Stress at Break	ISO 527-1, -2	7.5	MPa
Tensile Stress at Yield	ISO 527-1, -2	6	MPa
Tensile Strain at Break	ISO 527-1, -2	> 800	%
Flexural modulus	ISO 178	100	MPa
Impact			
Notched izod impact strength (- 40°C, Type 1, Notch A)	ISO 180	3	kJ/m ²
(23 °C, Type 1, Notch A)		No Break	
Ductile/Brittle transition temperature	ISO 6603-2	-55	°C
Hardness			
Shore hardness (Shore A)	ISO 868	90	
Shore hardness D	ISO 868/ASTM D 2240	35	
Note: 15 seconds			
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	40	°C
Vicat softening temperature (A50 (50°C/h 10N) °C)	ISO 306	53	°C
Melting temperature	DSC	164	°C

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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