

## Adflex Q 108 F

### Advanced Polyolefin

#### Product Description

Adflex Q 108 F is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary *Catalloy* process technology. It is suitable for the extrusion and calendaring of soft film and sheet, for the impact modification of polypropylene and other compounding applications, as well as monolayer and multilayer air quenched blown films. It is also used by our customers for automotive color-matched interior trim applications.

The grade is available in natural pellet form and has no slip or antiblock, and only minimal stabilization in order to allow wider design latitude for the compounder. Additional suitable stabilization is recommended to protect the resin during melt processing and throughout its useful life.

For regulatory compliance information see *Adflex Q 108 F* Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS), which can be found on [www.polymers.lyondellbasell.com](http://www.polymers.lyondellbasell.com).

#### Product Characteristics

<b>Status</b>	Commercial: Restricted
<b>Test Method used</b>	ISO
<b>Availability</b>	North America
<b>Processing Methods</b>	Extrusion Compounding, Extrusion Flat-die, Blown Film, Calendaring, Extrusion Pipe Sheet and Semi Finished Products, Extrusion Thermoforming
<b>Features</b>	Good Colorability, High ESCR (Environmental Stress Cracking Resistance), Good Flexibility, Low Gloss, Low Hardness, Medium Heat Resistance, Good Impact Resistance, Good Puncture Resistance
<b>Typical Customer Applications</b>	Automotive Parts, Bags & Pouches, Building and Construction, Interior Applications, Panels & Profiles, Soft Profile & Sheets, Stationery Film, TPO Foils and Skins

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.88	g/cm <sup>3</sup>
Melt flow rate (MFR) (230 °C/2.16 kg)	ISO 1133	0.6	g/10 min
<b>Mechanical</b>			
Tensile Stress at Break	ISO 527-1, -2	11	MPa
Tensile Strain at Break	ISO 527-1, -2	> 500	%
Flexural modulus	ISO 178	80	MPa
<b>Impact</b>			
Notched izod impact strength	ISO 180		
(- 20°C, Type 1, Notch A)		No Break	
(- 40°C, Type 1, Notch A)		6P*	kJ/m <sup>2</sup>
(23 °C, Type 1, Notch A)		No Break	
<b>Hardness</b>			
Shore hardness (Shore D)	ISO 868	30	
<b>Thermal</b>			
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
Melting temperature	DSC	142	°C
<i>Note: ISO 11357-3</i>			

#### 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/>.

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.

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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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