

Hifax CA 10 A

Advanced Polyolefin

Product Description

Hifax CA 10 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell proprietary *Catalloy* process technology. It is suitable for industrial applications where a combination of good processability and excellent softness is required.

It is widely used as building block resin for flexible water-proofing membranes.

Hifax CA 10 A exhibits low stiffness, low hardness and good impact resistance. The grade is available in natural pellet form.

For regulatory compliance information see *Hifax CA 10 A 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	Extrusion Compounding, Extrusion Flat-die, Extrusion Wire, Blown Film, Calendering, Extrusion Pipe Sheet and Semi Finished Products, Extrusion Thermoforming
Features	High ESCR (Environmental Stress Cracking Resistance), Low Hardness , Medium Heat Resistance , Good Impact Resistance
Typical Customer Applications	Panels & Profiles, Polymer modifier, Single Ply Roofing, TPO Foils and Skins, Water management membranes, Wire & Cable

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.88	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	0.6	g/10 min
Mechanical			
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
Impact			
Notched izod impact strength (23 °C, Type 1, Notch A)	ISO 180	No Break	
(- 20 °C, Type 1, Notch A)		No Break	
Hardness			
Shore hardness (Shore D) <i>Note: 15 seconds</i>	ISO 868	30	
Thermal			
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>			

Additional Properties

Mechanical: ISO 527-1, -2. Specimens cut from compression molded plates. Deformation speed 500mm/min.

Stress at Yield: 6 MPa
Stress at Break: 20 MPa
Elongation at Break: 800 %

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:

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(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 Safety Data Sheet before handling the product.

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