

Technical Data Sheet

Hifax CA 10 A



Catalloy

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.

Regulatory Status

For regulatory compliance information, see *Hifax* CA 10 A [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Automotive Flooring; Geomembranes; Interior Automotive Applications; Panels & Profiles; Pipe Coating; Polymer Modifier; Single Ply Roofing; Soft Profile & Sheets; TPO Foils and Skins; TPO Residential Flooring; Wire & Cable
Market	Automotive; Compounding; Flexible Packaging; Industrial, Building & Construction; Wire & Cable
Processing Method	Blown Film; Calendaring; Compounding; Extrusion Flat-die; Sheet; Thermoforming; Wire & Cable
Attribute	Good Impact Resistance; High ESCR (Environmental Stress Cracking Resistance); Low Hardness; Medium Heat Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.6	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.88	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	90	MPa	ISO 178
Tensile Stress at Break	11	MPa	ISO 527-1, -2
Tensile Stress at Yield	No Yield Pt	MPa	ISO 527-1, -2
Tensile Strain at Break	500	%	ISO 527-1, -2
Tensile Strain at Yield	No Yield Pt	%	ISO 527-1, -2
Impact			

Charpy Impact Strength - Notched		
(23 °C)	No Break	ISO 179
(-20 °C)	110 kJ/m ²	ISO 179
Note: Failure Mode - Partial Break		
(-40 °C)	5 kJ/m ²	ISO 179
Note: Failure Mode - Complete Break		
Hardness		
Shore Hardness, (Shore D, 15 sec)	30	ISO 868
Thermal		
Vicat Softening Temperature, (A50)	60 °C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	40 °C	ISO 75B-1, -2
DSC Melting Point	142 °C	ISO 11357-3
Optical		
Gloss, (60°, 45 mil)	85	ASTM D2457
Additional Information		
Mold Shrinkage		ISO 294-4
Please contact LyondellBasell for shrinkage information.		

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) 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;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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- (ii) applications involving permanent implantation into the body;
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