

Technical Data Sheet

Hifax CA 12 A

Catalloy



Product Description

Hifax CA 12 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary Catalloy process technology.

It is suitable for industrial applications where a combination of good processability and excellent softness is required. Hifax CA 12 A exhibits low stiffness, low hardness and good impact resistance. The material shows high compatibility to other polyolefins as well as to other soft plastics. Hifax CA 12 A is cross linkable.

The grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see Hifax CA 12 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	Bottles for Industrial Use; Interior Automotive Applications; Polymer Modifier; TPO Foils and Skins; Wire & Cable
Market	Automotive; Electrical / Electronics; Industrial, Building & Construction; Wire & Cable
Processing Method	Calendaring; Compounding; Extrusion Blow Molding; Extrusion Flat-die; Sheet; Wire & Cable
Attribute	Good Chemical Resistance; Good Flexibility; Good Impact Resistance; Haptics; Low Hardness; Low Temperature Impact Resistance; Matte; Medium Heat Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.8	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.88	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	330	MPa	ISO 178
Tensile Stress at Break	13	MPa	ISO 527-1, -2
Tensile Stress at Yield	9	MPa	ISO 527-1, -2
Tensile Strain at Break	550	%	ISO 527-1, -2
Tensile Strain at Yield	35	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	NB	kJ/m ²	ISO 179
(-20 °C)	100	kJ/m ²	ISO 179
(-40 °C)	100	kJ/m ²	ISO 179
Hardness			
Shore Hardness, (Shore D)	36		ISO 868

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Thermal		
Vicat Softening Temperature, (A50)	78 °C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	50 °C	ISO 75B-1, -2
Melting Temperature	163 °C	ISO 11357-3

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;
- (iii) life-sustaining medical applications.

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