

Technical Data Sheet

Hifax CA 207 A

Catalloy



Product Description

Hifax CA 207 A is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary *Catalloy* process technology. It is suitable for injection molding applications as well as for wire & cable extrusion process. As an impact modifier for compounding applications, it can be blended with other polyolefinic resins for a better shrinkage control and to improve the low temperature impact resistance. It does not contain any slip nor anti-blocking agents. The grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see Hifax CA 207 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	Exterior Automotive Applications; Interior Automotive Applications; Polymer Modifier; Wire & Cable
Market	Automotive; Compounding; Industrial, Building & Construction; Wire & Cable
Processing Method	Compounding; Injection Molding; Wire & Cable
Attribute	Good Abrasion Resistance; Good Dimensional Stability; Good Electrical Properties; High Heat Resistance; High Impact Resistance; Low Temperature Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	7.5	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.89	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	550	MPa	ISO 178
Tensile Stress at Break	22	MPa	ISO 527-1, -2
Tensile Stress at Yield	14	MPa	ISO 527-1, -2
Tensile Strain at Break	700	%	ISO 527-1, -2
Tensile Strain at Yield	20	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	65	kJ/m ²	ISO 179
Note: Failure Mode - Partial Break			
(-20 °C)	45	kJ/m ²	ISO 179
Note: Failure Mode - Partial Break			
(-40 °C)	5	kJ/m ²	ISO 179
Note: Failure Mode - Complete Break			
Hardness			

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Shore Hardness, (Shore D, 15 sec)	46	ISO 868
Thermal		
Vicat Softening Temperature, (A50)	94 °C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	58 °C	ISO 75B-1, -2
DSC Melting Point	163 °C	ISO 11357-3
Optical		
Haze		
(50 µm)	13 %	ASTM D1003
(45 mil)	23 %	ASTM D1003
Gloss		
(60°, 45 mil)	110	ASTM D2457
(45°, 50 µm)	60	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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Users should review the applicable Safety Data Sheet before handling the product.

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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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- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

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