Technical Data Sheet

Hifax CA 387 A

Catalloy

Product Description

Hifax CA 387 A is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary *Catalloy* process technology. It has high melt flow and an excellent balance of impact, stiffness, processability and paintability. *Hifax* CA 387 A is primarily used for painted automotive bumper fascias that require high durability, and for other injection molded parts with paintable and weatherable requirements. It is also utilized as a component in compounded materials for a wide range of industrial applications. The grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see *Hifax* CA 387 A Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America; South & Central America
Application	Bumpers; Caps & Closures; Exterior Automotive Applications; Interior Automotive Applications; Polymer Modifier
Market	Automotive; Compounding
Processing Method	Compounding; Injection Molding
Attribute	Durable; Good Colorability; Good Moldability; Good Stiffness; High Flow; High Impact Resistance; Paintable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	18.5	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.89	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	1000	MPa	ISO 178
Tensile Stress at Break	13	MPa	ISO 527-1, -2
Tensile Stress at Yield	18	MPa	ISO 527-1, -2
Tensile Strain at Break	110	%	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	60	kJ/m²	ISO 179
Note: Failure Mode - Partial Break			
(-20 °C)	8.7	kJ/m²	ISO 179
Note: Failure Mode - Complete Break			
(-40 °C)	2.6	kJ/m²	ISO 179
Note: Failure Mode - Complete Break			

Multi-axial Impact Strength			
(23° C, 2.2 m/s, 3.2 mm plaque)	17	J	ASTM D3763
Note: Failure Mode - Ductile			
(-40°C, 2.2 m/s, 3.2 mm plaque)	27	J	ASTM D3763
Note: Failure Mode - Ductile			
Hardness			
Shore Hardness, (Shore D, 15 sec)	52		ISO 868
Thermal			
Vicat Softening Temperature, (A50)	120	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2
DSC Melting Point	163	°C	ISO 11357-3
Optical			
Gloss, (60°, 45 mil)	77		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.

Automotive Specifications

- FCA MS-DC256A CPN 3403
- FCA MS-DC256A CPN 4131
- FCA MS-DC265B CPN 4712
- FCA MS-DC265B CPN 4720
- Ford WSS M4D952-A3
- GM GMP.E/P.099

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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(ii) applications involving permanent implantation into the body;
(iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

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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