

Hifax CA 387 A

Advanced Polyolefin

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.

For regulatory compliance information see *Hifax CA387 Product Stewardship Bulletin (PSB)*.

Product Characteristics

| | |
|--------------------------------------|---|
| Status | Commercial: Active |
| Test Method used | ISO |
| Availability | North America |
| Processing Methods | Extrusion Compounding, Injection Molding |
| Features | Good Colorability, Durable, High Flow , High Impact Resistance , Good Moldability , Paintable, Good Stiffness |
| Typical Customer Applications | Bumpers, Exterior Applications, Polymer modifier |

| Typical Properties | Method | Value | Unit |
|--|---------------|-------|-------------------|
| Physical | | | |
| Density (Method A) | ISO 1183 | 0.90 | g/cm ³ |
| Melt flow rate (MFR) (230°C/2.16Kg) | ISO 1133 | 18.5 | g/10 min |
| <i>Note: Alternative test method is ASTM D 1238</i> | | | |
| Mechanical | | | |
| Tensile Stress at Yield | ISO 527-1, -2 | 18 | MPa |
| Tensile Strain at Break | ISO 527-1, -2 | 75 | % |
| Tensile Strain at Yield | ISO 527-1, -2 | 7.5 | % |
| Flexural modulus (23°C, 2mm/min, Chord) | ISO 178 | 1000 | |
| Impact | | | |
| Notched izod impact strength (23 °C) | ISO 180 | 47 | kJ/m ² |
| <i>Note: Failure Mode: Partial</i> | | | |
| (-40 °C) | | 7 | kJ/m ² |
| <i>Note: Failure Mode: Complete</i> | | | |
| Multiaxial Impact Strength (Energy@ Max Load +23 °C, 2.2m/s, 3.2mm plq; Failure Mode: Ductile) | ASTM D3763 | 17 | J |
| (Energy@ Max Load -40 °C, 2.2m/s, 3.2mm plq; Failure Mode: Ductile) | | 27 | J |
| Hardness | | | |
| Shore hardness (Shore D) | ISO 868 | 63 | |
| <i>Note: 15 seconds</i> | | | |
| Thermal | | | |

Heat deflection temperature B (0.45 MPa) Unannealed ISO 75B-1, -2 74 °C

Heat deflection temperature A (1.80 MPa) Unannealed ISO 75A-1, -2 47 °C

Additional Information

Mold shrinkage ISO 294-4

Note: Please contact Equistar for shrinkage recommendations

Additional Properties

AUTOMOTIVE SPECIFICATIONS:

Chrysler MS-DC256A CPN 3403

Chrysler MS-DC256A CPN 4131

Chrysler MS-DC265B CPN 4712

Chrysler MS-DC265B CPN 4720

Ford WSS M4D952-A3

GM GMP.E/P.099

Notes

Typical properties; not to be construed as specifications.

© LyondellBasell Industries Holdings, B.V. 2015

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/>.

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

This product(s) may not be used in:

(i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or

(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.

Adflex, Adstif, Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Alkylate, Amazing Chemistry, Aquamarine, Aquathene, Arctic Plus, Arctic Shield, Avant, Catalloy, Clyrell, CRP, Crystex, Dexflex, Duopac, Duoprime, Explore & Experiment, Filmex, Flexathene, Fueling the power to win, Glacido, Hifax, Hiflex, Histif, Hostacom, Hostalen PP, Hostalen ACP, Ideal, Indure, Integrate, Koattro, LIPP, Lucalen, Luflexen, Lupolen, Lupolex, Luposim, Lupostress, Lupotech, Metocene, Microthene, Moplen, MPDIOL, Nerolex, Nexprene, Petrothene, Plexar, Polymeg, Pristene, Prodflex, Pro-fax, Punctilious, Purell, Refax, SAA100, SAA101, Sequel, Softell, Spherilene, Spheripol, Spherizone, Starflex, Stretchene, Superflex, TBac, Tebol, T-Hydro, Toppyl, Trans4m, Tufflo, Ultrathene, Vacido and Valtec, are trademarks owned and/or used by the LyondellBasell family of companies.

Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Aquamarine, Arctic Plus, Arctic Shield, Avant, CRP, Crystex, Dexflex, Duopac, Duoprime, Explore & Experiment, Filmex, Flexathene, Hifax, Hostacom, Hostalen,

Ideal, Integrate, Koattro, Lucalen, Lupolen, Metocene, Microthene, Moplen, MPDIOL, Nexprene, Petrothene, Plexar, Polymeg, Pristene, Pro-fax, Punctilious, Purell, Sequel, Softell, Spheripol, Spherizone, Starflex, Tebol, T-Hydro, Toppyl, Tufflo, Ultrathene are registered in the U.S. Patent and Trademark Office.

Release Date: 19 May 2015