

## Technical Data Sheet

### *Hifax* TYC 1168P NATURAL

Polypropylene Compounds



#### Product Description

*Hifax* TYC 1168P NATURAL very high melt flow for easy and fast molding and has low density, which reduces part weight. It has good stiffness and excellent cold temperature impact. It is typically used for mold-in color exterior trim and fascia applications.

#### Regulatory Status

For regulatory compliance information, see *Hifax* TYC 1168P NATURAL [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                                                                                                                |
| <b>Availability</b>      | North America                                                                                                                                     |
| <b>Application</b>       | Automotive Parts; Bumpers; Exterior Automotive Applications                                                                                       |
| <b>Market</b>            | Automotive                                                                                                                                        |
| <b>Processing Method</b> | Injection Molding                                                                                                                                 |
| <b>Attribute</b>         | Good Dimensional Stability; Good Flow; Good Impact Resistance; Good Moldability; High Stiffness; Low Shrinkage; Low Temperature Impact Resistance |

| Typical Properties                                            | Nominal Value | Units             | Test Method   |
|---------------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                               |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                              | 35            | g/10 min          | ASTM D1238    |
| Density, (23 °C, Method A)                                    | 0.98          | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>Mechanical</b>                                             |               |                   |               |
| Flexural Modulus, (23 °C)                                     | 1600          | MPa               | ISO 178       |
| Tensile Stress at Yield, (23 °C)                              | 18            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break, (23 °C)                              | >500          | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                                 |               |                   |               |
| Charpy Impact Strength - Notched                              |               |                   |               |
| (23 °C)                                                       | 54            | kJ/m <sup>2</sup> | ISO 179       |
| (-30 °C)                                                      | 5.1           | kJ/m <sup>2</sup> | ISO 179       |
| Multi-axial Impact Strength, (-30 °C, 2.2 m/s, 3.2 mm plaque) | 22            | J                 | ASTM D3763    |
| Failure Mode Ductile.                                         |               |                   |               |
| <b>Additional Information</b>                                 |               |                   |               |
| Mold Shrinkage                                                |               |                   | ISO 294-4     |
| Please contact LyondellBasell for shrinkage recommendations.  |               |                   |               |

#### Notes

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

#### Processing Techniques

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Date: 7/25/2017

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Recipient Tracking #:  
Request #: 909089

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.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (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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