

## Technical Data Sheet

### Hifax CA387PC YBTA



Polypropylene Compounds

#### Product Description

Hifax CA387PC YBTA high melt flow, medium low flexural modulus thermoplastic elastomeric olefin (TEO) resin has an excellent balance of impact, stiffness, processability and paintability. It is based on material produced from LyondellBasell's proprietary Catalloy process and is typically used for automotive bumper fascias that require high durability.

#### Regulatory Status

For regulatory compliance information, see Hifax CA387PC YBTA [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| Status            | Commercial: Active                                                           |
| Availability      | North America                                                                |
| Application       | Automotive Parts; Bumpers; Exterior Automotive Applications                  |
| Market            | Automotive                                                                   |
| Processing Method | Injection Molding                                                            |
| Attribute         | Durable; Good Moldability; Good Stiffness; High Flow; High Impact Resistance |

| Typical Properties                                                                   | Nominal Value         | Units             | Test Method     |
|--------------------------------------------------------------------------------------|-----------------------|-------------------|-----------------|
| <b>Physical</b>                                                                      |                       |                   |                 |
| Melt Flow Rate, (230 °C/2.16 kg)                                                     | 18                    | g/10 min          | ISO 1133-1      |
| Density, (23 °C)                                                                     | 0.91                  | g/cm <sup>3</sup> | ISO 1183-1      |
| <b>Mechanical</b>                                                                    |                       |                   |                 |
| Flexural Modulus                                                                     | 1000                  | MPa               | ISO 178         |
| Tensile Stress at Yield                                                              | 18                    | MPa               | ISO 527-1, -2   |
| Tensile Strain at Yield                                                              | 7.5                   | %                 | ISO 527-1, -2   |
| <b>Impact</b>                                                                        |                       |                   |                 |
| Notched Izod Impact Strength                                                         |                       |                   |                 |
| (23 °C)                                                                              | 45                    | kJ/m <sup>2</sup> | ISO 180         |
| (-40 °C)                                                                             | 7.0                   | kJ/m <sup>2</sup> | ISO 180         |
| <b>Thermal</b>                                                                       |                       |                   |                 |
| Deflection Temperature Under Load                                                    |                       |                   |                 |
| (0.45 MPa, Unannealed)                                                               | 80                    | °C                | ISO 75B-1, -2   |
| (1.80 MPa, Unannealed)                                                               | 52                    | °C                | ISO 75A-1, -2   |
| Coefficient of Linear Thermal Expansion (CLTE), Flow, (-22 to 212 °F, -30 to 100 °C) | 10 x 10 <sup>-5</sup> | cm/cm/°C          | ISO 11359-1, -2 |
| <b>Additional Information</b>                                                        |                       |                   |                 |
| Mold Shrinkage                                                                       |                       |                   | ISO 294-4       |
| Please contact LyondellBasell for shrinkage recommendations.                         |                       |                   |                 |