



## Hifax TYC735P

### Compounded Polyolefin

#### Product Description

Hifax TYC735P high melt flow, 1,150 MPa flexural modulus, UV-stabilized, paintable, mineral-filled thermoplastic elastomeric olefin (TEO) has an excellent combination of properties and processability. It was designed for use in multiple molded-in color and selectively decorated automotive exterior applications.

A non-UV-stabilized version, TYC735X, is also available for fully painted applications.

#### Product Characteristics

|                               |                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Test Method used              | ISO                                                                                                                                          |
| Processing Methods            | Injection Molding                                                                                                                            |
| Features                      | Good Adhesion, Good Dimensional Stability, Durable, High Flow , Good Impact Resistance , Paintable, Good Stiffness , Good Weather Resistance |
| Typical Customer Applications | Bumpers, Exterior Applications                                                                                                               |

| Typical Properties                                                                                     | Method          | Value                  | Unit              |
|--------------------------------------------------------------------------------------------------------|-----------------|------------------------|-------------------|
| <b>Physical</b>                                                                                        |                 |                        |                   |
| Density                                                                                                | ISO 1183        | 0.98                   | g/cm <sup>3</sup> |
| Melt flow rate (MFR) (230°C/2.16Kg)                                                                    | ISO 1133        | 25                     | g/10 min          |
| Note: Alternative test method is ASTM D 1238-01.                                                       |                 |                        |                   |
| <b>Mechanical</b>                                                                                      |                 |                        |                   |
| Tensile Stress at Yield                                                                                | ISO 527-1, -2   | 17.5                   | MPa               |
| Tensile Strain at Yield                                                                                | ISO 527-1, -2   | 14                     | %                 |
| Flexural modulus                                                                                       | ISO 178         | 1150                   | MPa               |
| <b>Impact</b>                                                                                          |                 |                        |                   |
| Notched izod impact strength (23 °C)                                                                   | ISO 180         | 46                     | kJ/m <sup>2</sup> |
| <b>Thermal</b>                                                                                         |                 |                        |                   |
| Heat deflection temperature B (0.45 MPa) Unannealed                                                    | ISO 75B-1, -2   | 86                     | °C                |
| Heat deflection temperature A (1.80 MPa) Unannealed                                                    | ISO 75A-1, -2   | 53                     | °C                |
| CLTE, Flow                                                                                             | ISO 11359-1, -2 | 4.5 x 10 <sup>-5</sup> | cm/cm/°C          |
| Note: Determined over a temperature range of -30°C to 100°C. Alternative test method is ASTM E 228-95. |                 |                        |                   |
| <b>Additional Information</b>                                                                          |                 |                        |                   |
| Mold shrinkage                                                                                         | ISO 294-4       |                        |                   |