

## Technical Data Sheet

### Hifax TYC 1351X Black



Polypropylene Compounds

#### Product Description

Hifax TYC 1351X Black has low density, which reduces part weight and improves paint adhesion. It also has good stiffness and excellent cold temperature impact that is typically used for fully painted exterior trim and fascia applications.

|                   |                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | Automotive Parts; Bumpers; Exterior Automotive Applications                                                                                                  |
| Market            | Automotive                                                                                                                                                   |
| Processing Method | Injection Molding                                                                                                                                            |
| Attribute         | Good Dimensional Stability; Good Flow; Good Impact Resistance; Good Moldability; High Stiffness; Low Shrinkage; Low Temperature Impact Resistance; Paintable |

| Typical Properties                                            | Nominal Value | Units             | Test Method   |
|---------------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                               |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                              | 25            | g/10 min          | ASTM D1238    |
| Density, (23 °C, Method A)                                    | 0.955         | 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)                              | 20            | MPa               | ISO 527-1, -2 |
| <b>Impact</b>                                                 |               |                   |               |
| Charpy Impact Strength - Notched, (23 °C)                     | 45            | 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.  |               |                   |               |