

## Technical Data Sheet

### Hifax TYC 459P 3004

Polypropylene Compounds



#### Product Description

Hifax TYC 459P 3004 is a 21% talc filled PP copolymer, with very low shrinkage, high flowability, good impact/stiffness balance and high UV resistance. Product is available as a customized color matched, pellet form. This grade is delivered in 3004 color version.

|                   |                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------|
| Application       | Exterior Trim                                                                                             |
| Market            | Automotive                                                                                                |
| Processing Method | Injection Molding                                                                                         |
| Attribute         | Good UV Resistance; High Flow; High Stiffness; Low Coefficient of Linear Thermal Expansion; Low Shrinkage |

| Typical Properties                                        | Nominal Value | Units             | Test Method   |
|-----------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                           |               |                   |               |
| Melt Flow Rate, (230 °C/2.16 kg)                          | 27            | g/10 min          | ISO 1133-1    |
| Density, (23 °C)                                          | 1.05          | g/cm <sup>3</sup> | ISO 1183-1/A  |
| <b>Mechanical</b>                                         |               |                   |               |
| Flexural Modulus, (23 °C, Tech. A)                        | 2100          | MPa               | ISO 178/A1    |
| Tensile Stress at Yield, (23 °C)                          | 18            | MPa               | ISO 527-1, -2 |
| Tensile Strain at Break, (23 °C)                          | 40            | %                 | ISO 527-1, -2 |
| <b>Impact</b>                                             |               |                   |               |
| Charpy Impact Strength - Notched                          |               |                   |               |
| (23 °C)                                                   | 25            | kJ/m <sup>2</sup> | ISO 179-1/1eA |
| (-30 °C)                                                  | 3.5           | kJ/m <sup>2</sup> | ISO 179-1/1eA |
| <b>Thermal</b>                                            |               |                   |               |
| Vicat Softening Temperature, (A50)                        | 125           | °C                | ISO 306       |
| Deflection Temperature Under Load, (0.45 MPa, Unannealed) | 110           | °C                | ISO 75B-1, -2 |

#### Notes

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

