



## HiPrene<sup>®</sup> T150DH

Thermoplastic Elastomer (TPE-O)

### Product Description

*HiPrene<sup>®</sup> T150DH is a semi-high flow olefinic thermoplastic elastomer (TPE-O). This material has excellent impact resistance even at low temperatures. It has been primarily designed for Airbag Cover. This material is available in natural or color-matched, pellet form.*

### Product Characteristic

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| <b>Status</b>                        | Commercial: Active                |
| <b>Test Method Used</b>              | ASTM                              |
| <b>Availibility</b>                  | Europe                            |
| <b>Features</b>                      | Low Temperature Impact Resistance |
| <b>Typical Customer Applications</b> | Automotive Interior-Airbag Cover  |

### Typical Properties

| Physical                             | Symbol               | Test Method | Unit              | Value       |
|--------------------------------------|----------------------|-------------|-------------------|-------------|
| Melt Mass-Flow Rate                  | MFR                  | ASTM D1238  | g/10min           | <b>9</b>    |
| Specific Gravity                     | $\rho$               | ASTM D792   | g/cm <sup>3</sup> | <b>0,89</b> |
| Mechanical                           | Symbol               | Test Method | Unit              | Value       |
| Tensile Stress @ Yield               | $\sigma_m$           | ASTM D638   | MPa               | <b>12,3</b> |
| Tensile Strain @ Break               | $\epsilon_{tB}$      | ASTM D638   | %                 | <b>485</b>  |
| Flexural Modulus <sup>1</sup> @ 23°C | $E_f$                | ASTM D790   | MPa               | <b>500</b>  |
| Impact                               | Symbol               | Test Method | Unit              | Value       |
| IZOD Impact Strength @ 23°C          | $a_{iN23^\circ C}$   | ASTM D256   | kJ/m <sup>2</sup> | <b>NB</b>   |
| IZOD Impact Strength @ -40°C         | $a_{iN-40^\circ C}$  | ASTM D256   | kJ/m <sup>2</sup> | <b>120</b>  |
| Thermal                              | Symbol               | Test Method | Unit              | Value       |
| Ash Content @ 600°C                  | Ash <sub>600°C</sub> | GS Method   | %                 | <b>1</b>    |

<sup>1</sup> feed rate 2 mm/min

**Notes:** Typical properties; not to be constructed as specification

## Processing Techniques

The actual conditions depends on the type of equipment used.

### Injection Moulding

*HiPrene T150DH* is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 60°C-70°C . Following moulding parameters should be used as guidelines:

|                     |                 |
|---------------------|-----------------|
| Feeding temperature | 40 – 80 °C      |
| Mass temperature    | 190 – 220 °C    |
| Back pressure       | Low to medium   |
| Holding pressure    | 40 – 65 bar     |
| Mould temperature   | 30 – 50 °C      |
| Screw speed         | Low to medium   |
| Injection speed     | 100 – 200 m/min |

### Storage

This material should be stored in dry conditions, protected from sunlight and at temperatures below 50 °C.

### Contact

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