



## HiPrene<sup>®</sup> T150D

Thermoplastic Elastomer (TPE-O)

### Product Description

*HiPrene<sup>®</sup> T150D is a medium 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>Availability</b>	Europe
<b>Features</b>	Scratch Resistance 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>7</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>13</b>
Tensile Strain @ Break	$\epsilon_{tB}$	ASTM D638	%	<b>415</b>
Flexural Modulus <sup>1</sup> @ 23°C	$E_f$	ASTM D790	MPa	<b>540</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 T150D* 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

**GS Caltex Czech, s.r.o.**

Bohumínská 455/20, Karviná – Staré Město (Nové Pole), 733 01

GPS: N49°52'003", E018°31'078"

Czech republic

tel.: 595 390 703; 595 390 724; 595 390 717