

# Product Data

*\*Developmental Data*

## TITANEX HB5502 FOR HDPE BLOW MOLDING

- CHARACTER** HB5502 is a pelleted high molecular weight, high density polyethylene Hexene-1 resin for blow molding. HB5502 meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 3.1a & 3.2a.
- APPLICATIONS** Blow molded bottles up to 5 litres for household and industrial chemical, toiletries, pharmaceutical and cosmetic containers.
- ADVANTAGES** Excellent processability, excellent resistance to most chemicals and good balance between stiffness and impact strength.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>TITANEX HB5502</u> <sup>(a)</sup>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt index, I <sub>2</sub>	g/10 min.	<b>0.3</b>	D 1238
Density	g/cm <sup>3</sup>	<b>0.953</b>	D 1505
Tensile strength at yield	kg/cm <sup>2</sup>	<b>280</b>	D 638
Ultimate elongation	%	<b>&gt; 700</b>	D 638
Flexural modulus	kg/cm <sup>2</sup>	<b>13000</b>	D 790
ESCR bent strip, F <sub>50</sub>	hrs	<b>&gt; 60</b>	D 1693 <sup>(c)</sup>

(a) Values shown are typical and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

(c) 10% "Igepal", 1.9mm specimen, slit, 50°C

Shrinkage : 2 - 5% depending on the product wall thickness and molding parameters.

### Typical moulding conditions

Rear zone temperature setting, °C : 180

Front zone temperature setting, °C : 190

Head and die temperature setting, °C : 190

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\* Developmental data, based on data obtained during product development and is subject to change.

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