

# Product Data

## TITANEX HB0972 FOR HDPE BLOW MOLDING

- CHARACTER** HB0972 is a pelleted high molecular weight, high density polyethylene Hexene-1 resin for blow molding. HB0972 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** Large size shipping containers and drums, household and industrial chemical containers, toiletries and cosmetic containers.
- ADVANTAGES** Excellent stress crack resistance, excellent resistance to most chemicals and outstanding rigidity with high impact strength, high melt strength and moderate die swell.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HB0972</u> <sup>(a)</sup>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt index, I <sub>2</sub>	g/10 min.	<b>0.1</b>	D 1238
Melt index, I <sub>21</sub>	g/10 min.	<b>10</b>	D 1238
Density	g/cm <sup>3</sup>	<b>0.949</b>	D 1505
Tensile strength at yield	kg/cm <sup>2</sup>	<b>310</b>	D 638
Tensile strength at break	kg/cm <sup>2</sup>	<b>370</b>	D 638
Ultimate elongation	%	<b>&gt; 600</b>	D 638
Flexural modulus	kg/cm <sup>2</sup>	<b>11200</b>	D 790
ESCR bent strip, F <sub>50</sub>	hrs	<b>&gt; 1000</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) 100% "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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