

# Product Data

## TITANZEX HI2000 FOR INJECTION MOLDING

**CHARACTER** HI2000 is a high density polyethylene for injection molding. HI2000 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** Caps and closures for mineral water bottles.

**ADVANTAGES** Excellent mechanical strength.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HI2000</u> <sup>(a)</sup>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt index	g/10 min	<b>2.0</b>	D 1238
Density	g/cm <sup>3</sup>	<b>0.953</b>	D 1505
Vicat Softening Point	°C	<b>124</b>	D 1525

### TYPICAL MECHANICAL PROPERTIES

Tensile strength at yield	kg/cm <sup>2</sup>	<b>290</b>	D 638
Tensile strength at break	kg/cm <sup>2</sup>	<b>220</b>	D 638
Elongation at break	%	<b>&gt; 500</b>	D 638
Flexural modulus	kg/cm <sup>2</sup>	<b>10000</b>	D 747
Izod impact strength	kg·cm/cm	<b>8</b>	D 256
Shore hardness	D scale	<b>63</b>	D 2240
Stress cracking resistance (F <sub>50</sub> )	hr	<b>10</b>	D 1693

(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.

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

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