

# Product Data

## TITANZEX HI1600 FOR INJECTION MOLDING

**CHARACTER** HI1600 is a high density polyethylene for injection molding. HI1600 meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 3.1 & (c) 3.2

**APPLICATIONS** Blending for use of Housewares, Containers, Tubs and Bins.

**ADVANTAGES** Excellent moldability and mechanical strength.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HI1600</u> <sup>(a)</sup>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt index	g/10 min	<b>21</b>	D 1238
Density	g/cm <sup>3</sup>	<b>0.957</b>	D 1505
Vicat Softening Point	°C	<b>122</b>	D 1525

### TYPICAL MECHANICAL PROPERTIES

Tensile strength at yield	kg/cm <sup>2</sup>	<b>280</b>	D 638
Elongation at break	%	<b>40</b>	D 638
Stiffness (Olsen)	kg/cm <sup>2</sup>	<b>10000</b>	D 747
Izod impact strength	kg·cm/cm	<b>2</b>	D 256
Shore hardness	D scale	<b>65</b>	D 2240
Stress cracking resistance (F50)	hr	<b>2</b>	D1693

(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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