

# Product Data

## TITANZEX HI6178 FOR INJECTION MOLDING

<b>CHARACTER</b>	HI6178 is an UV light stabilized high density polyethylene for injection molding. HI6178 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.
<b>APPLICATIONS</b>	Crates and containers, Pallets, Industrial pails, Garbage bins, Caps & closures, etc.
<b>ADVANTAGES</b>	Outstanding UV resistance, Excellent stiffness.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HI6178</u> <sup>(a)</sup>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt index	g/10 min	<b>7</b>	D 1238
Density	g/cm <sup>3</sup>	<b>0.961</b>	D 1505
Vicat Softening Point	°C	<b>126</b>	D 1525

### TYPICAL MECHANICAL PROPERTIES

Tensile strength at yield	kg/cm <sup>2</sup>	<b>320</b>	D 638
Tensile strength at break	kg/cm <sup>2</sup>	<b>170</b>	D 638
Elongation at break	%	<b>&gt; 300</b>	D 638
Flexural modulus	kg/cm <sup>2</sup>	<b>13000</b>	D 790
Izod impact strength	kg·cm/cm	<b>7</b>	D 256
Shore hardness	D scale	<b>65</b>	D 2240
Stress cracking resistance (F <sub>50</sub> )	hr	<b>7</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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