

# Product Data

## TITANZEX HI5748 FOR INJECTION MOLDING

- CHARACTER** HI5748 is an UV light stabilized high density polyethylene for injection molding. HI5748 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** Crates and containers, Pails, Pallets, Bins, Caps & closures and other technical parts.
- ADVANTAGES** Outstanding UV resistance, Excellent mechanical strength.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HI5748</u> <sup>(a)</sup>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt index	g/10 min	<b>4</b>	D 1238
Density	g/cm <sup>3</sup>	<b>0.955</b>	D 1505
Vicat Softening Point	°C	<b>125</b>	D 1525

### TYPICAL MECHANICAL PROPERTIES

Tensile strength at yield	kg/cm <sup>2</sup>	<b>330</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>10500</b>	D 790
Izod impact strength	kg·cm/cm	<b>9</b>	D 256
Shore hardness	D scale	<b>64</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.

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purposes. Unless otherwise agreed in writing, we sell products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.