



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

TYPICAL MECHANICAL PROPERTIES

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