

Product Data

TITANEX HB0976 FOR HDPE BLOW MOLDING

- CHARACTER** HB0976 is a pelleted high molecular weight, high density polyethylene Hexene-1 resin for blow molding. HB0976 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** Large size shipping containers and drums, household and industrial chemical containers, toiletries and cosmetic containers.
- ADVANTAGES** Excellent stress crack resistance, excellent resistance to most chemicals and outstanding rigidity with balanced impact strength and stiffness, high melt strength and moderate die swell.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HB0976</u> ^(a)	<u>ASTM METHOD</u> ^(b)
Melt index, I ₂	g/10 min.	0.1	D 1238
Melt index, I ₂₁	g/10 min.	8	D 1238
Density	g/cm ³	0.952	D 1505
Tensile strength at yield	kg/cm ²	330	D 638
Tensile strength at break	kg/cm ²	390	D 638
Ultimate elongation	%	> 700	D 638
Flexural modulus	kg/cm ²	12000	D 790
ESCR bent strip, F ₅₀	hrs	> 250	D 1693 ^(c)

(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.

(c) 10% "Igepal", 1.9mm specimen, slit, 50°C

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

Typical moulding conditions

Rear zone temperature setting, °C	: 180
Front zone temperature setting, °C	: 190
Head and die temperature setting, °C	: 190

