LOTTE CHEMICAL TITAN

Product Data

TITANEX HB0972
FOR HDPE BLOW MOLDING

CHARACTER HB0972 is a pelleted high molecular weight, high density polyethylene Hexene-1 resin for blow molding. HB0972 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 high impact strength, high melt strength and moderate die swell.

TYPICAL RESIN PROPERTIES	UNIT	HB0972 (a)	ASTM METHOD (b)
Melt index, I_2	g/10 min.	**0.1**	D 1238
Melt index, I_{21}	g/10 min.	**10**	D 1238
Density	g/cm^3	**0.949**	D 1505
Tensile strength at yield	kg/cm^2	**310**	D 638
Tensile strength at break	kg/cm^2	**370**	D 638
Ultimate elongation	%	> **600**	D 638
Flexural modulus	kg/cm^2	**11200**	D 790
ESCR bent strip, F_{50}	hrs	> **1000**	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) 100% "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

R04

LOTTE CHEMICAL TITAN (M) SDN. BHD. (Registration no. 198601005832 (154990-W))
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