Product Data

TITANEX HB5502
FOR HDPE BLOW MOLDING

CHARACTER HB5502 is a high molecular weight, high density polyethylene Hexene-1 resin for blow molding. HB5502 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 Household and industrial chemical containers, toiletries, pharmaceutical and cosmetic containers.

ADVANTAGES Excellent processability, excellent resistance to most chemicals and good balance between stiffness and impact strength.

TYPICAL RESIN PROPERTIES	UNIT	HB5502 (a)	ASTM METHOD (b)
Melt index, I_{21}	g/10 min.	**29**	D 1238
Melt index, I_2	g/10 min	**0.35**	D1238
Density	g/cm^3	**0.953**	D 1505
Tensile strength at yield	kg/cm^2	**280**	D 638
Tensile strength at break	kg/cm^2	**340**	D 638
Elongation at break	%	> **700**	D 638
Flexural modulus	kg/cm^2	**13000**	D 790
ESCR, F_{50}	hrs	> **40**	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

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