

Product Data

TITANEX HB5502 FOR HDPE BLOW MOLDING

CHARACTER HB5502 is a pelleted 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.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HB5502</u> ^(a)	<u>ASTM METHOD</u> ^(b)
Melt index, I ₅	g/10 min.	1.3	D 1238
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
Ultimate elongation	%	> 700	D 638
Flexural modulus	kg/cm ²	13000	D 790
ESCR bent strip, F ₅₀	hrs	> 60	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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