

# Product Data

## TITANEX HM4560UA FOR HDPE LARGE BLOW MOLDING

- CHARACTER** HM4560UA is an UV light stabilized, pelleted high molecular weight, high density polyethylene Hexene-1 resin for medium-large blow molding.
- APPLICATIONS** Intermediate bulk containers, agricultural containers, industrial chemical containers and pallets.
- ADVANTAGES** Excellent stress crack resistance, excellent resistance to most chemicals and outstanding rigidity with high impact strength and high melt strength.

<u>TYPICAL RESIN PROPERTIES</u>	<u>UNIT</u>	<u>HM4560UA</u> <sup>(a)</sup>	<u>ASTM METHOD</u> <sup>(b)</sup>
Melt index, I <sub>21</sub>	g/10 min.	<b>6</b>	D 1238
Density	g/cm <sup>3</sup>	<b>0.945</b>	D 1505
Tensile strength at yield	kg/cm <sup>2</sup>	<b>240</b>	D 638
Tensile strength at break	kg/cm <sup>2</sup>	<b>350</b>	D 638
Ultimate elongation	%	<b>&gt; 600</b>	D 638
Flexural modulus	kg/cm <sup>2</sup>	<b>11,000</b>	D 790
Heat deflection temperature at 4.6 kg/cm <sup>2</sup>	°C	<b>75</b>	D 648
Izod impact strength	kg.cm/cm	<b>65</b>	D 256
ESCR bent strip, F <sub>50</sub>	Hrs	<b>&gt; 1,000</b>	D 1693 <sup>(c)</sup>
Vicat softening point	°C	<b>125</b>	D 1525

(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, Procedure B

### Typical moulding conditions

Rear zone temperature setting, °C	: 180 – 220
Front zone temperature setting, °C	: 190 – 230
Head and die temperature setting, °C	: 190 – 230

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