



## 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.

| <u>TYPICAL RESIN PROPERTIES</u>  | <u>UNIT</u>        | <u>HB0972 <sup>(a)</sup></u> | <u>ASTM METHOD <sup>(b)</sup></u> |
|----------------------------------|--------------------|------------------------------|-----------------------------------|
| Melt index, I <sub>2</sub>       | g/10 min.          | <b>0.1</b>                   | D 1238                            |
| Melt index, I <sub>21</sub>      | g/10 min.          | <b>10</b>                    | D 1238                            |
| Density                          | g/cm <sup>3</sup>  | <b>0.949</b>                 | D 1505                            |
| Tensile strength at yield        | kg/cm <sup>2</sup> | <b>310</b>                   | D 638                             |
| Tensile strength at break        | kg/cm <sup>2</sup> | <b>370</b>                   | D 638                             |
| Ultimate elongation              | %                  | <b>&gt; 600</b>              | D 638                             |
| Flexural modulus                 | kg/cm <sup>2</sup> | <b>11200</b>                 | D 790                             |
| ESCR bent strip, F <sub>50</sub> | hrs                | <b>&gt; 1000</b>             | D 1693 <sup>(c)</sup>             |

(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 |

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