



## Technical Datasheet: HD HB0035

### Product Description:

HB0035 is a high molecular weight high density polyethylene blow moulding grade combining blow moulding extrusion behavior and superior mechanical properties. Blow moulded items made from HB0035 exhibit high impact strength and good stress cracking resistance and high stiffness. HB0035 contains antioxidant to protect the polymer from degradation during processing. HB0035 is a highly crystalline, non-polar thermoplastic and has excellent chemical resistance and superb impact resistance at ambient conditions and even at cold temperatures.

### Applications:

- Small blow moulding
- Bottles
- Containers (up to 5 lit.)

### Typical data:

| Property                      | Test method | Unit               | value    |
|-------------------------------|-------------|--------------------|----------|
| Mass density (23°C)           | ASTM D 1505 | g/cm <sup>3</sup>  | 0.959    |
| Melt Flow Rate (190°C/2.16kg) | ASTM D 1238 | gr/10Min           | 0.35     |
| Melt Flow Rate (190°C/5kg)    | ISO 1133    | g/10min            | 1.2      |
| Melt Flow Rate (190°C/21.6kg) | ASTM D 1238 | g/10min            | 23       |
| Izod impact strength          | ASTM D 256  | Kg.cm/cm           | 25 min   |
| Yellow index                  | ASTM D 1925 | -                  | -5       |
| Ash content                   | ASTM D 1063 | wt%                | 0.06 max |
| Volatile matter               | ASTM D 1960 | wt%a               | 0.05 max |
| Tensile strength at break     | ASTM D 638  | gr/cm <sup>2</sup> | 290 min. |
| Elongation at break           | ASTM D 638  | %                  | 900 min  |
| Melting point                 | ASTM D 2117 | °C                 | 130      |
| Vicat softening point         | ASTM D 1525 | °C                 | 126      |
| ESCR                          | ASTM D 1693 | hr.                | 15       |