

Technical Datasheet HB0035

1) 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.

2) Applications:

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

3) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Mass density (23°C)	ASTM D 1505	g/cm ³	0.959
Melt Flow Rate (190°C/2.16 kg)	ASTM D 1238	g/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 max.
Ash content	ASTM D 1063	wt%	0.06 max.
Volatile matter	ASTM D 1960	wt%	0.05 max.
Tensile strength at break	ASTM D 638	gr/cm ²	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

* Typical values not to be construed as specifications.