Technical Data Sheet

HB0035

High Density Polyethylene (HDPE)

Product Description

HB0035 is a high molecular weight high density polyethylene blow moulding grade combining blow moulding extrusion behaviour and superior mechanical properties. Blow moulded items made from HB 0035 exhibit high impact strength and good stress cracking resistance and high stiffness. HB 0035 contains antioxidant to protect the polymer from degradation during processing. HB 0035 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 liter)

PROPERTY	UNIT	TYPICAL VALUE*	TEST METHOD
MASS DENSITY (23°C)	g/cm3	0.959	ASTM D 1505
MELT FLOW RATE (190°C/2.16 KG)	g/10min	0.35	ASTM D1238
IZOD IMPACT STRENGTH	Kg.cm/cm	25 min	ASTM D 256
YELLOW INDEX	-	-5 max.	ASTM D 1925
ASH CONTENT	wt.%	0.06 max	ASTM D 1063
VOLATILE MATTER	wt.%	0.05 max.	ASTM D 1960
TENSILE STRENGTH @ BREAK	gr/cm2	290 min	ASTM D 638
ELONGATION @ BREAK	%	900 min	ASTM D 638
MELTING POINT	°C	130	ASTM D 2117
VICAT SOFTENING POINT	°C	126	ASTM D 1525
ESCR	hr	15	ASTM D 1693

Processing conditions

HB0035 can be processed in most types of blow moulding equipment including HDPE or LDPE extruders. It is suitable for producing hollow article in extrusion blow moulding process. A single screw extruder with a barrel of 25D to 30D long, smooth walled grooved feed section and/ or with decompression, mixing and shearing sections with 20D to 25Dscrew length are typical extruders for blow moulding of containers. This arrangement minimizes thermal degradation of melt and provides a high plasticizing capacity coupled with good extrudate quality.

Producer: Bandar Imam Petrochemical Co.
Licensor: MITSUI
Packing: 25 Kg plastic bag

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