

Technical Data Sheet

HDPE-HB0035

High Density Polyethylene

HDPE-HB0035 is high molecular weight density polyethylene blow molding grade combining blow molding extrusion behavior and superior mechanical properties. Blow molded items made from HB0035 contains antioxidant to protect the polymer from degradation during processing. HB0035 is a highly crystalline, nonpolar thermoplastic and has excellent chemical resistance and superb impact resistance at ambient conditions and even at cold temperatures.

Applications

HB0035 is well suited for wide range of blow molding application due to it's unique properties. These range from bottles for bleach, motor oil, toiletries, mild and distilled water to large ice chest. This grade is also used to make small containers.

Properties	Units	Value	Test Method
MFI (190 °C/2.16 kg)	g/10min	0.28-0.43	ASTM D 1238
Density	g/cm3	0.956 -0.962	ASTM D 1505
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 at Break	Kg/cm2	290 min	ASTM D 638
Elongation	%	900 min	ASTM D 638
Tensile Strength at Yield	Kg/cm2	250 min	ASTM D 638
Melting Point	°C	130-131	ASTM D 2117
Hardness shore D	--	62-64	ASTM D 2240
Softening Point	°C	125-128	ASTM D 1525
Chlorine Content	Wt ppm	Max 60	X-RAY
Titanium Content	Wt ppm	Max 6	X-RAY
Ca Strerate Content	Wt ppm	Min 700	X-RAY
Irgafos 168 Content	Wt ppm	Min 140	X-RAY
Irganox 1010 Content	Wt ppm	Min 140	X-RAY
ESCR	hr	Min 15	ASTM D-1693