

## Product Datasheet

### High Density Polyethylene

HDB 1050 is a translucent white, high density polyethylene copolymer grade. Does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition. Insoluble in water while soluble in xylene. Offers outstanding combination of good processability and excellent stress cracking resistance (ESCR). It can be processed using blow molding. Suitable for canisters from 2 to 200L for chemical products, flasks for concentrated detergent & reservoir, wind shield wiper and air ducts. HDB 1050 meets the requirements for olefin polymers as defined in 21 CFR, section 177.1520 issued by FDA-Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA.

Control & Typical Properties			
Feature	Method	Units	Values
Melt Flow Rates (190 °C/5.0 kg)	D 1238	g/10 min	0.30
Melt Flow Rates (190 °C/21.6 kg)	D 1238	g/10 min	9.0
Density	D 792	s/cm <sup>3</sup>	0.950
Flexural Modulus - 1% Secant	D 790	Mpa	1400
Tensile Strength at Yield	D 638	Mpa	30
Environmental Stress Cracking Resistance - notch 0.3 mm; 50oC; 10% Igepal CO 630	D 1693	H/F50	400
Deflection Temperature under Load at 0.455 Mpa	D 648	°C	70

<sup>1</sup> Typical values which can vary within specification limits and are not to be construed as specifications.

<sup>2</sup> 21.6 kg/190°C.