

## Industrial Packaging

High Density Polyethylene  
Large Blow Molding Grades

**HBM 4265**  
**HBM 5510**



**REACH Certified**  
**Food Contact Compliance Certified**

HDPE large blow molded products, in the form of high-capacity containers, is used in the packaging of various industrial products. HDPE with a unique balance of impact resistance and mechanical strength, along with good chemical resistance, is used in the production of Intermediate Bulk Container (IBC), various drum and jerry cans. These products are produced by extrusion blow molding process.

Our rich portfolio of sustainable solutions in large blow molding HDPE grades, is backed by unique gas phase polymerization technology that using chromium based catalyst. ASPC HDPE grades are widely used in the production of various types of packaging elements, relying on excellent melt strength, process-ability and environmental stress crack resistance.

**HBM 4265 and HBM 5510** are ethylene and 1-hexene copolymers that are used to produce lightweight, tasteless and low odor containers for the following applications:

- ▶ IBCs
- ▶ Large agricultural tank
- ▶ Open top drums (Up to 110 Lit)
- ▶ Packaging of dangerous goods
- ▶ Standard and lightweight jerry cans



**HBM 4265 and HBM 5510 main characteristic:**

- ▶ Light weight
- ▶ Excellent process-ability
- ▶ Very good creep strength
- ▶ Good ESCR
- ▶ Balance of high stiffness, good impact and temperature resistance
- ▶ Very good organoleptic properties
- ▶ High line productivity
- ▶ Enhanced safety for consumer

#### HBM 4265 and HBM 5510 Main Properties

PROPERTIES	PHYSICAL			MECHANICAL				
	Density 23°C	Melt Flow Rate		Flexural Modulus - 1% Secant	Tensile Modulus	Tensile Stress at Yield	Tensile Strain at Yield	Tensile Impact Strength; Notched
		190°C, 21.6 kg	190°C, 2.16 kg					-30°C
Test Method	ISO 1183	ISO 1133-1		ASTM D790	ISO 527-1, 2		ISO 8256/1A	
Unit	g/cm <sup>3</sup>	g/10 min			MPa	%	kJ/m <sup>2</sup>	
<b>HBM 4265</b>	0.942	6.5	0.05	-	800	24	10	160
<b>HBM 5510</b>	0.955	10	0.075	1000	1100	27	8	135

#### ASPC Grade Naming

**HBM:** High Density PE for Blow Molding Process

First and Second Digit	Grade Typical Density (kg/m <sup>3</sup> )	Third and Fourth Digit	HLMI (g/10min, 21.6 kg at 190°C)
42	942	65	6.5
55	955	10	10