

Packaging Solutions for Liquids

High Density Polyethylene
Small Blow Molding Grades

HBM 5020
HBM 5520



REACH Certified
Food Contact Compliance Certified

HDPE is one of the best polymer solutions for producing various packages. Lightweight, recyclability, reasonable price, excellent physical and mechanical properties have led to the broad use of this polymer in the production of bottles and tubes.

Thanks to the unique gas phase technology and chromium catalyst, ASPC produces unique grades of HDPE for the production of various packages and containers using the blow molding process.

HBM 5020 and HBM 5520 are ethylene and 1-hexene copolymers that are used to produce lightweight, tasteless and low odor containers for the following applications:

- ▶ Water juice dairy
- ▶ Household and industrial chemicals
- ▶ Toiletries and cosmetics
- ▶ Agricultural chemicals
- ▶ Personal care
- ▶ Pharmaceuticals
- ▶ Automotive parts
- ▶ Durable goods
- ▶ Packaging of consumer and dangerous goods

HBM 5020 and HBM 5520 main characteristic

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



HBM 5020 and HBM 5520 Main Properties

PROPERTIES	PHYSICAL			MECHANICAL				ESCR	
	Density 23°C	Melt Flow Rate		Tensile Modulus	Tensile Stress at Yield	Tensile Strain at Yield	Tensile Impact Strength; Notched	Ball Indentation Hardness (H132/30)	FNCT
		190°C, 2.16 kg	190°C, 21.6 kg				-30°C		3.5 MPa, 80°C 2 % Arkopal
Test Method	ISO 1183	ISO 1133-1		ISO 527-1, 2			ISO 8256/1A	ISO 2039-1	ISO 16770
Unit	g/cm ³	g/10 min		MPa		%	kJ/m ²	MPa	h
HBM 5020	0.950	0.3	22	1000	25	9	110	45	6
HBM 5520	0.955	0.25	23	1200	28	9	110	51	4.5

ASPC Grade Naming

HBM: High Density PE for Blow Molding Process

First and Second Digit	Grade Typical Density (kg/m ³)	Third and Fourth Digit	HLMI (g/10min, 21.6 kg at 190°C)
50	950	20	20
55	955		