



HDPE 5510

high density polyethylene

HBM5510 is a high density polyethylene, specially developed for large parts blow molding. This

grade, which is produced by 1-hexene as a co-monomer, offers high stiffness, good process-ability, excellent parison melt strength and good ESCR. HBM 5510 has been manufactured under Basell license.

Producer:

ARYA SASOL Petrochemical Company

No	Property	Value	Units	Test Method
1	High Load Melt Flow Index (190°C/ 21.6kg)	10	g/10 min	ISO 1133
2	Melt Flow Index (190°C/ 2.16 kg)	0.075	g/10 min	ISO 1133
3	Density	0.955	g/cm ³	ISO 1183
4	Bulk Density	> 0.50	g/cm ³	ISO60
Mechanical				
5	Tensile Modulus of Elasticity	1000	MPa	ISO 527-1 ,2
6	Flexural Modulus - 1 % Secant	1000	MPa	ASTM D790
7	Tensile Stress at Yield	27	MPa	ISO 527-1 ,2
8	Tensile Strain at Yield	8	%	ISO 527-1 ,2
9	Tensile Stress at Break	43	MPa	ISO 527-1 ,2
10	Ball Indentation Hardness	49	MPa	ISO 2039-1
11	ESCR F59(100 %Igepal, Method B)	110	hrs	ASTM D1693
Impact				
12	Tensile Impact Strength (Notched Type 1, Method A, 30°C)	135	kJ/m ²	ISO 8256
13	Izod Impact Strength (Notched, Method A, 23°C)	22	kJ/m ²	ISO 180
Thermal				
14	Vicat Softening Temperature (Method A/ 10N)	127	°C	ISO 306

Applications:

Large Parts Blow Molding - Standard and Lightweight Jerry Cans- Open Top Drums (Up to 110 lit).

