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HIGH DENSITY POLYETHYLENE HBM5020

HBM 5020 is a high-density polyethylene with a broad molecular weight distribution, specially developed for small blow-molded bottles. This grade which is produced by 1-hexene as a co-monomer, offers high stiffness, easy flow, and very good ESCR, HBM 5020 has been manufactured under the Basell license.

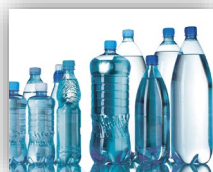
Producer:

Arya Sasol Petrochemical Company

NO	Property	Value	Units	Test Method
1	High Load Melt Flow Index (190oC/ 21.6 kg)	22	g/10 min	ISO 1133
2	Melt Flow Index (190oC/ 2.16 kg)	0.3	g/10 min	ISO 1133
3	Density	0.950	g/cm ³	ISO 1183
4	Bulk Density	> 0.50	g/cm ³	ISO 60
5	Tensile Modulus of Elasticity	1000	MPa	ISO 527-1,2
6	Tensile Stress at Yield	25	MPa	ISO 527-1,2
7	Tensile Strain at Yield	9	%	ISO 527-1,2
8	Ball Indentation Hardness	45	MPa	ISO 2039-1
9	ESCR	150	hrs.	Basell method
10	Tensile Impact Strength (Notched, Type 1, Method A, -30oC)	110	kJ/m ²	ISO 8256
11	FNCT (3.5 MPa, 2% Arkopal N100, 80°C)	6	Hrs.	ISO 16770
12	Vicat Softening Temperature (Method A/ 10N)	78	°C	ISO 306
13	Melting Temperature	131	°C	ISO 3146
14	Deflection Temperature Under Load (0.45 MPa)	75	°C	ISO 75
15	Deflection Temperature Under Load (1.8 MPa)	43	°C	ISO 75
16	Extruder Barrel Temperature: 170-200 °C		Melt Temperature: 190-220 °C	

Applications:

- Multipurpose blow molding process- Small blow molded bottles- Packaging



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