

High density polyethylene

HBM 5510 is a high density polyethylene, specially developed for large parts blow molding. This grade, which is produced by -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.

Applications:

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

NO.	Physical Property	Value	Test Method
1	High Load Melt Flow Index (190°C/21.6kg)	10 g/10 min	ISO 1133
2	Melt Flow Index (190°C/2.16kg)	0.075 g/10 min	ISO 1133
3	Density	0.955 g/cm ³	ISO 1183
4	Bulk Density	>0.50 g/cm ³	ISO 60

	Mechanical Property	Value	Test Method
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 F50(100% Igepal, Method B)	110 hrs	ASTM D1693

	Impact Property	Value	Test Method
12	Tensile Impact Strength	135 kJ/m ²	ISO 8256

	Thermal Property	Value	Test Method
13	Vicat Softening Temperature	127°C	ISO 306



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