

HBM 5510

High Density Polyethylene

Product Description

HBM 5510 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.

General Information

Status	Commercial: Active	
Application	Large Parts Blow Molding - Standard and Lightweight Jerry Cans- Open Top Drums (Up to 110 lit).	
Form(s)	Pellet	
Attribute	Good ESCR Good Stiffness	Good Process-ability
Additives	Antioxidant: Yes Processing Aid: No	Antiblock: No Slip Agent: No

Typical Properties	Typical Value ¹	Unit	Test Method
Physical			
High Load Melt Flow Index (190°C/ 21.6 kg)	10	g/10 min	ISO 1133
Melt Flow Index (190°C/ 5 kg)	0.075	g/10 min	ISO 1133
Density ²	0.955	g/cm ³	ISO 1183
Bulk Density	> 0.50	g/cm ³	ISO 60
Mechanical ³			
Tensile Modulus of Elasticity	1000	MPa	ISO 527-1,2
Flexural Modulus - 1% Secant	1000	MPa	ASTM D790
Tensile Stress at Yield	27	MPa	ISO 527-1,2
Tensile Strain at Yield	8	%	ISO 527-1,2
Tensile Stress at Break	43	MPa	ISO 527-1,2
Ball Indentation Hardness	49	MPa	ISO 2039-1
ESCR F ₅₀ (100% Igepal, Method B)	110	hrs	ASTM D1693

