



Product Data Sheet

ASPC HBM5020

PRODUCT DESCRIPTION:

HBM5020 is a high density polyethylene with broad molecular weight distribution, specially developed for small blow molded bottles. This grade offer high stiffness, easy flow, very good ESCR and chemical resistance and sufficient impact strength.

APPLICATIONS:

HBM5020 is recommended for multipurpose blow molding process. This product is suitable for manufacture of small blow molded bottles, packaging of consumer goods and packaging of dangerous goods.

PRODUCT PROPERTIES:

Extruder barrel temperature: 170-200°C

Melt temperature: 190-220°C

Please note that, these processing conditions are recommended by producer only for 100% HBM5020 resin (not in the case of blending with any other compatible material), but because of the many particular factors which are outside our knowledge and control, and may affect the use of product, no warranty is given.

PRODUCT SPECIFICATION:

Properties	Value ⁽¹⁾	unit	Test method
Physical Properties			
Density (23 °C)	950	kg/m ³	ISO 1183
MFI (190 °C /21.6Kg)	22	dg/min	ISO 1133
MFI (190 °C /2.16Kg)	0.3	dg/min	ISO 1133
Bulk Density	>0.5	g/cm ³	ISO 1133
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	1000	MPa	ISO527-1
Tensile stress at Yield	25	MPa	ISO 527-1
Tensile strain at Yield	9	%	ISO 527-1
Notched Tensile impact strength(-30 °C)	110	kJ/m ²	ISO 8256/1A
Thermal Properties			
HDT,(0.45 MPa)	75	°C	ISO 75B-1
HDT,(1.80 MPa)	43	°C	ISO 75A-1
Melting Point	131	°C	ISO 11357
Vicat Temperature (B50,50 °C/h , 50 N)	78	°C	ISO 306
Hardness			
Ball indentation Hardness (H 132/30)	45	MPa	ISO 2039-1
FNCT (3.5MPa, 80°C, 2% Igepal BC/9)	6	h	ISO/CD 16770
ESCR(bottle test)	150	h	Basell
<i>Additive : Antioxidant-Heat stabilizer</i>			



Notes:

- (1) Typical Values: not to be construed as specifications limits.
- (2) Properties are based on compression molded sheet using 100% HBM5020.

TOXICITY AND SAFETY:

For more detailed information on handling, storage, safety parameters, refer to relevant SDS of Components.

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Note: *this information is based on our current knowledge and experience .in view of many factors that may affect processing and application, this data does not relive processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.*