



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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Product Data Sheet

ASPC MFI3820

PRODUCT DESCRIPTION:

MFI3820 is a medium density polyethylene, which has a broad molecular weight distribution and high melt strength. This product specially designed for producing thin films with high tear resistance, good sealability, high strength and high draw down.

APPLICATIONS:

MFI3820 is recommended for blown film extrusion. This product is suitable for manufacture of high strength carrier bags and high quality thin films for uni/multi-wall packaging.

PRODUCT PROPERTIES:

Extruder temperature profile: 180-250°C

Frost line height: 6-8 times die diameter.

Blow Up Ratio: 3-5

Recommended film thickness: 10 to 50 µm.

Please note that, these processing conditions are recommended by producer (for 100% MFI3820 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)	938	kg/m ³	ISO 1183
MFI (190 °C /2.16kg)	20	dg/min	ISO 1133
Bulk Density	>0.50	g/cm ³	ISO 60
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	650	MPa	ISO527-1
Tensile stress at Yield	20	MPa	ISO 527-1
Tensile strain Yield	10	%	ISO 527-1
Ball indentation hardness H 49/30	34	MPa	ISO 2039-1
Shore D hardness	44	-	ISO 868
Thermal Properties			
HDT,(0.45 MPa)	61	°C	ISO 75B-1
HDT,(1.80 MPa)	38	°C	ISO 75A-1
<i>Additive : Antioxidant –Heat stabilizer</i>			

Notes:

(1) Typical Values: not to be construed as specifications limits.

(2) Properties are based on 20 µm blown film produced at a melt temperature of 220°C and 4 BUR using 100% MFI3820.



TOXICITY AND SAFETY:

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Product Data Sheet

ASPC HBM4265

PRODUCT DESCRIPTION:

HBM4265 is a high density polyethylene, specially developed for large blow molding and jerry cans. This grade offer very good creep strenght, good processability, excellent ESCR and stiffness.

APPLICATIONS:

HBM4265 is recommended for multipurpose blow molding process. This product is suitable for manufacture of small to large jerry cans (eg. Pesticides, surface active liquids etc), also for coextrusion and IBC.

PRODUCT PROPERTIES:

Extruder barrel temperature: 190-220°C

Melt temperature: 205-240°C

Please note that, these processing conditions are recommended by producer only for 100% HBM4265 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 oC)	942	kg/m3	ISO 1183
MFI (190 oC /21.6Kg)	6.5	dg/min	ISO 1133
Bulk Density	>0.50	g/cm3	ISO 60
Mechanical properties ⁽²⁾			
Tensile Modulus of Elasticity	800	MPa	ISO527
Notched Tensile impact strength(-30 oC)	160	kJ/m2	ISO 8256
ESCR(bottle test)	4000	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% HBM4265.*

TOXICITY AND SAFETY:

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Product Data Sheet

ASPC HBM5510

PRODUCT DESCRIPTION:

HBM5510 is a high density polyethylene, specially developed for large blow molding and jerry cans. This grade offer high stiffness, good processability, very good ESCR and stiffness.

APPLICATIONS:

HBM5510 is recommended for multipurpose blow molding process. This product is suitable for manufacture of standard jerry cans and light weight jerry cans.

PRODUCT PROPERTIES:

Extruder barrel temperature: 180-220°C

Melt temperature: 200-235°C

Please note that, these processing conditions are recommended by producer only for 100% HBM5510 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)	955	kg/m3	ISO 1183
MFI (190 °C /21.6Kg)	10	dg/min	ISO 1133
Bulk Density	> 0.50	g/cm3	ISO 60
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	1100	MPa	ISO527-1
Tensile stress at Yield	27	MPa	ISO 527-1
Tensile strain at Yield	8	%	ISO 527-1
Notched Tensile impact strength(-30°C)	135	kJ/m2	ISO 8256/1A
Hardness			
Ball indentation Hardness	49	MPa	ISO 2039-1
ESCR	90	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% HBM5510.

TOXICITY AND SAFETY:

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Product Data Sheet

ASPC HBM5520

PRODUCT DESCRIPTION:

HBM5520 is a medium molecular weight, high density polyethylene, which intended for blow molding articles of small sizes. This grade offer excellent combination of toughness, stress cracking resistance, good mechanical properties and easy processability.

APPLICATIONS:

HBM5520 is recommended for multipurpose blow molding process. This product is suitable for manufacture of containers for household and industrial chemicals (eg. Detergents, solvents, paints, etc), automotive supplies, foodstuffs, toiletries and cosmetics.

PRODUCT PROPERTIES:

Extruder barrel temperature: 180-210°C

Melt temperature: 200-225°C

Please note that, these processing conditions are recommended by producer only for 100% HBM5520 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)	955	kg/m ³	ISO 1183
MFI (190 °C /21.6Kg)	23	dg/min	ISO 1133
MFI (190 °C /2.16Kg)	0.25	dg/min	ISO 1133
Bulk Density	>0.50	g/cm ³	ISO 60
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	1200	MPa	ISO527-1
Tensile stress at Yield	28	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)	83	°C	ISO 75B-1
HDT,(1.80 MPa)	45	°C	ISO 75A-1
Melting Point	135	°C	ISO 3146
Vicat Temperature (B50,50°C/h , 50 N)	79	°C	ISO 306
Hardness			
Ball indentation Hardness(H 132/30)	51	MPa	ISO 2039-1
FNCT (3.5MPa, 80°C, 2% Igepal BC/9)	4.5	h	ISO/CD 16770
ESCR(bottle test)	30	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% HBM5520.



TOXICITY AND SAFETY:

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Product Data Sheet

ASPC HCH 5110A (HFI5110)

PRODUCT DESCRIPTION:

HCH 5110A (HFI5110) is a high molecular weight, high density polyethylene, which has a broad molecular weight distribution and high melt strength. This product specially designed for producing thin films with excellent strength and rigidity.

APPLICATIONS:

HCH 5110A (HFI5110) is recommended for blown film extrusion. This product is suitable for manufacture of high strength grocery sacks, shopping bags and high quality thin films for uni/multi-wall packaging. Films produced with this product can be readily treated and printed to give high quality graphics.

PRODUCT PROPERTIES:

Extruder temperature profile: 200-235°C

Frost line height: 6-8 times die diameter.

Blow Up Ratio: 3-5

Recommended film thickness: 15 to 50 µm.

Please note that, these processing conditions are recommended by producer (for 100% HCH 5110A (HFI5110) 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)	951	kg/cm ³	ISO 1183
MFI (190 °C /21.6Kg)	10	dg/min	ISO 1133
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	1050	MPa	ISO527-1;2
Tensile Strength (MD)	55	MPa	ISO 527-1;3
Tensile Strength (TD)	55	MPa	ISO 527-1;3
Tensile Strain at Break (MD)	580	%	ISO 527-1
Tensile Strain at Break (TD)	620	%	ISO 527-1
Tensile stress at Yield	26	MPa	ISO 527-1
Tensile strain at Yield	10	%	ISO 527-1
Elemendorf tear strength(MD)	250	mN	ISO 6383-2
Elemendorf tear strength(TD)	800	mN	ISO 6383-2
Thermal Properties			
Melting Point	132	°C	ISO 3146
Vicat Temperature , (A50,50 °C/h , 10 N)	127	°C	ISO 306
<i>Additives :Antioxidant –Heat stabilizer Zinc Stearate</i>			



Notes:

- (1) Typical Values: not to be construed as specifications limits.
- (2) Properties are based on 20 μm blown film produced at a melt temperature of 220°C and 4 BUR using 100% HCH 5110A (HFI5110).

TOXICITY AND SAFETY:

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

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Product Data Sheet

ASPC HFI5110

PRODUCT DESCRIPTION:

HFI5110 is a high molecular weight, high density polyethylene, which has a broad molecular weight distribution and high melt strength. This product specially designed for producing thin films with excellent strength and rigidity.

APPLICATIONS:

HFI5110 is recommended for blown film extrusion. This product is suitable for manufacture of high strength grocery sacks, shopping bags and high quality thin films for uni/multi-wall packaging. Films produced with this product can be readily treated and printed to give high quality graphics.

PRODUCT PROPERTIES:

Extruder temperature profile: 200-235°C
 Frost line height: 6-8 times die diameter.
 Blow Up Ratio: 3-5
 Recommended film thickness: 15 to 50 µm

Please note that, these processing conditions are recommended by producer only for 100% HFI5110 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)	951	kg/cm ³	ISO 1183
MFI (190 °C /21.6Kg)	10	dg/min	ISO 1133
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	1050	MPa	ISO527-1;2
Tensile Strength (MD)	55	MPa	ISO 527-1;3
Tensile Strength (TD)	55	MPa	ISO 527-1;3
Tensile Strain at Break (MD)	580	%	ISO 527-1
Tensile Strain at Break (TD)	620	%	ISO 527-1
Tensile stress at Yield	26	MPa	ISO 527-1
Tensile strain at Yield	10	%	ISO 527-1
Elemendorf tear strength(MD)	250	mN	ISO 6383-2
Elemendorf tear strength(TD)	800	mN	ISO 6383-2
Thermal Properties			
Melting Point	132	°C	ISO 3146
Vicat Temperature , (A50,50 °C/h , 10N)	127	°C	ISO 306
<i>Additives :Antioxidant –Heat stabilizer Zinc Stearate</i>			



Notes:

- (1) Typical Values: not to be construed as specifications limits.
- (2) Properties are based on 20 μm blown film produced at a melt temperature of 220°C and 4 BUR using 100% HFI5110.

TOXICITY AND SAFETY:

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Product Data Sheet

ASPC MFI3313

PRODUCT DESCRIPTION:

MFI3313 is a medium density polyethylene, which has a broad molecular weight distribution and high melt strength. This product specially designed for producing thin films with high tear resistance, good sealability, high strength and high draw down.

APPLICATIONS:

MFI3313 is recommended for blown film extrusion. This product is suitable for manufacture of high strength carrier bags and high quality thin films for uni/multi-wall packaging.

PRODUCT PROPERTIES:

Extruder temperature profile: 180-240°C

Frost line height: 6-8 times die diameter.

Blow Up Ratio: 3-5

Recommended film thickness: 10 to 50 µm.

Please note that, these processing conditions are recommended by producer (for 100% MFI3313 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:

Property	Value ⁽¹⁾	unit	Test method
Physical Properties			
Density (23 oC)	933	kg/m3	ISO 1183
MFI (190 oC /2.16Kg)	0.1	dg/min	ISO 1133
MFI (190 oC /21.6Kg)	13	dg/min	ISO 1133
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	620	MPa	ISO527-1;2
Max. Tensile Strength (MD)	55	MPa	ISO 527-1;3
Max. Tensile Strength (TD)	43	MPa	ISO 527-1;3
Tensile Strain at Break (MD)	600	%	ISO 527-1
Tensile Strain at Break (TD)	600	%	ISO 527-1
Elemendorf tear strength(MD)	330	mN	ISO 6383-2
Elemendorf tear strength(TD)	2000	mN	ISO 6383-2
Failure energy	8.5	J/mm	DIN 53373
Dart Drop Impact	160	g	ASTM D 1709
Thermal Properties			
Melting Point	124	oC	ISO 3146
Vicat Temp , (A50,50 oC /h , 10 N)	116	oC	ISO 306
<i>Additive : Antioxidant-Heat stabilizer</i>			

Notes:

(1) Typical Values: not to be construed as specifications limits.

(2) Properties are based on 20 µm blown film produced at a melt temperature of 220°C and 4 BUR using 100% MFI3313.



TOXICITY AND SAFETY:

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Product Data Sheet

ASPC MFI3713

PRODUCT DESCRIPTION:

MFI3713 is a medium density polyethylene, which has a broad molecular weight distribution and high melt strength. This product specially designed for producing thin films with high tear resistance, good sealability, high strength and high draw down.

APPLICATIONS:

MFI3713 is recommended for blown film extrusion. This product is suitable for manufacture of high strength carrier bags and high quality thin films for uni/multi-wall packaging.

PRODUCT PROPERTIES:

Extruder temperature profile: 180-240°C

Frost line height: 6-8 times die diameter.

Blow Up Ratio: 3-5

Recommended film thickness: 10 to 50 µm.

Please note that, these processing conditions are recommended by producer (for 100% MFI3713 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)	937	kg/m3	ISO 1183
MFI (190 °C /21.6Kg)	13	dg/min	ISO 1133
MFI (190 °C /2.16Kg)	0.1	dg/min	ISO 1133
Mechanical properties ⁽²⁾			
Tensile Modulus of elasticity	735	MPa	ISO527-1,2
Max. Tensile Strength (MD)	46	MPa	ISO 527-1;3
Max. Tensile Strength (TD)	46	MPa	ISO 527-1;3
Tensile Strain at Break (MD)	550	%	ISO 527-1
Tensile Strain at Break (TD)	650	%	ISO 527-1
Elemendorf tear strength(MD)	210	mN	ISO 6383-2
Elemendorf tear strength(TD)	1100	mN	ISO 6383-2
Failure energy	7	J/mm	DIN 53373
Dart Drop Impact	120	g	ASTM D 1709
Thermal Properties			
Melting Point	127	°C	ISO 3146
Vicat Temp , (A50,50 °C /h , 10 N)	121	°C	ISO 306
<i>Additives :Antioxidant -Heat stabilizer</i>			

Notes:

(1) Typical Values: not to be construed as specifications limits.



(2) Properties are based on 20 μm blown film produced at a melt temperature of 220°C and 4 BUR using 100% MFI3713.

TOXICITY AND SAFETY:

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