



**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 <sup>(1)</sup>	unit	Test method
<b>Physical Properties</b>			
Density(23 °C)	955	kg/m <sup>3</sup>	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 <sup>3</sup>	ISO 60
<b>Mechanical properties <sup>(2)</sup></b>			
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 <sup>2</sup>	ISO 8256/1A
<b>Thermal Properties</b>			
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
<b>Hardness</b>			
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:

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

## CONTACT US:

**Tehran office:** 7th Floor ,No.2551, Kian Tower, (on the corner of Shahid Naseri), Valiasr AVE, Tehran- Iran

Postal code: 1968643111

P.O.Box:15875-8393

Tel: (+9821) 88645201-7, 85920000

Fax: (+9821) 88645193

[www.Aryasasol.com](http://www.Aryasasol.com)

Email: [sop@aspcpe.com](mailto:sop@aspcpe.com)

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