



**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 <sup>(1)</sup>	unit	Test method
<b>Physical Properties</b>			
Density (23°C)	938	kg/m <sup>3</sup>	ISO 1183
MFI (190 °C /2.16kg)	20	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	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
<b>Thermal Properties</b>			
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:

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.*