

QAMAR HB18N

Linear Low Density Polyethylene

SPDC Ltd.

Product Description:

QAMAR HB18N is a Linear Low Density Polyethylene material. It is available in Africa & Middle East, Asia Pacific, Europe, or North America for blown film. Primary attribute of QAMAR HB18N: High Strength.

Typical applications include:

- Bags/Liners
- Film

Availability	• Africa & Middle East	• Europe
	• Asia Pacific	• North America
Features	• Additive Free	• High Strength
Uses	• Film	• Heavy-duty Bags
Processing Method	• Blown Film	

Physical	Nominal Value Unit	Test Method
Density	0.918 g/cm ³	ASTM D4883
Melt Mass- Flow Rate (MFR) (190 °C/2.16 kg)	0.50 g/10 min	ISO 1872-2

Hardness	Nominal Value Unit	Test Method
Shore Hardness (S hore D)	55	ISO 868

Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield)	9.00 MPa	ISO 1872-2
Tensile Strain (Break)	> 430 %	ISO 1872-2
Flexural Modulus	200 MPa	ISO 1872-2

Films	Nominal Value Unit	Test Method
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Film Thickness - Tested	30 μm	
Tensile Modulus		ISO 527-3
MD : 30 μm	200 MPa	
TD : 30 μm	230 MPa	
Tensile Stress		ISO 527-3
MD : Break, 30 μm	60.0 MPa	
TD : Break, 30 μm	45.0 MPa	
Tensile Elongation		ISO 527-3
MD : Break, 30 μm	500 %	
TD : Break, 30 μm	850 %	
Dart Drop Impact (30 μm)	130 g	ISO 7765-1
Elmendorf Tear Strength		ISO 6383-2
MD : 30 μm	30 N	
TD : 30 μm	170 N	
Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -70.0 $^{\circ}\text{C}$	ISO 974
Vicat Softening Temperature	102 $^{\circ}\text{C}$	ISO 306
Melting Temperature	122 $^{\circ}\text{C}$	ISO 11357-3
Optical	Nominal Value Unit	Test Method
Haze (30.0 μm)	7.0 %	ISO 14782

Extrusion Notes

Resin Temperature: 200 $^{\circ}\text{C}$

Blow up Ratio: 2.0

Extruder: 40 mm, L/D=24

Die Diameter: 75 mm