QAMAR HB18N

Linear Low Density Polyethylene

SPDC Ltd.

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Technical Data

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

General

Material Status	• Commercial: Active	
Literature [1]	• Technical Datasheet (English)	
Availability	• Africa & Middle East • Asia Pacific	• Europe • 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/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1872-2
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**
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	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	55		ISO 868
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -70.0	°C	ISO 974
Vicat Softening Temperature	102	°C	ISO 306
Melting Temperature	122	°C	ISO 11357-3
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze (30.0 µm)	7.00	%	ISO 14782

Extrusion	Nominal Value	Unit
Screw L/D Ratio	24.0:1.0	

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Extrusion Notes

Resin Temperature: 200°C
Blow up Ratio: 2.0
Extruder: 40 mm, L/D=24
Die Diamteter: 75 mm

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

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Where to Buy

Supplier

SPDC Ltd.
, Japan
Web: http://www.spdc.co.jp/

Distributor

Please contact the supplier to find a distributor for QAMAR HB18N

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