

Technical Data

Product Description

QAMAR FC18N is a Linear Low Density Polyethylene material. It is available in Africa & Middle East, Asia Pacific, Europe, or North America for blown film.

Typical application of QAMAR FC18N: Film

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Features	• Additive Free
Uses	• Film • General Purpose
Processing Method	• Blown Film

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ISO 1872-2

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	1310 psi	9.00 MPa	ISO 1872-2
Tensile Strain (Break)	> 430 %	> 430 %	ISO 1872-2
Flexural Modulus	29000 psi	200 MPa	ISO 1872-2

Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1.2 mil	30 µm	
Tensile Modulus			ISO 527-3
MD : 1.2 mil (30 µm)	27600 psi	190 MPa	
TD : 1.2 mil (30 µm)	31900 psi	220 MPa	
Tensile Stress			ISO 527-3
MD : Break, 1.2 mil (30 µm)	7980 psi	55.0 MPa	
TD : Break, 1.2 mil (30 µm)	5800 psi	40.0 MPa	
Tensile Elongation			ISO 527-3
MD : Break, 1.2 mil (30 µm)	550 %	550 %	
TD : Break, 1.2 mil (30 µm)	850 %	850 %	
Dart Drop Impact (1.2 mil (30 µm))	120 g	120 g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 1.2 mil (30 µm)	6.7 lbf	30 N	
TD : 1.2 mil (30 µm)	36 lbf	160 N	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D)	55	55	ISO 868

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -94.0 °F	< -70.0 °C	ISO 974
Vicat Softening Temperature	216 °F	102 °C	ISO 306
Melting Temperature	252 °F	122 °C	ISO 11357-3

Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (1.18 mil (30.0 µm))	8.0 %	8.0 %	ISO 14782

Extrusion Notes

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



QAMAR FC18N

Linear Low Density Polyethylene
SPDC Ltd.

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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.

