

Technical Data

**Product Description**

QAMAR FC21HN is a Linear Low Density Polyethylene material. It is available in Africa & Middle East, Asia Pacific, Europe, or North America for blown film.

Important attributes of QAMAR FC21HN are:

- Antiblock
- Clarity
- Slip

Typical application of QAMAR FC21HN: Film

**General**

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <b>Technical Datasheet (English)</b>
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Additive	• Antiblock • Slip
Features	• Antiblocking • General Purpose • Medium Clarity • Slip
Uses	• Film • General Purpose
Processing Method	• Blown Film

	Nominal Value (English)	Nominal Value (SI)	Test Method
<b>Physical</b>			
Density	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	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
<b>Mechanical</b>			
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
<b>Films</b>			
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	
<b>Hardness</b>			
Shore Hardness (Shore D)	55	55	ISO 868
<b>Thermal</b>			
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
<b>Optical</b>			
Haze (1.18 mil (30.0 µm))	11 %	11 %	ISO 14782



## QAMAR FC21HN

Linear Low Density Polyethylene  
SPDC Ltd.

# PROSPECTOR®

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### Extrusion Notes

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

### Notes

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

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