

# QAMAR FC21HN

Linear Low Density Polyethylene  
SPDC Ltd.

## Technical Data

### General

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

Physical	Nominal Value Unit	Test Method
Density	0.918 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Stress		JIS K6760
Yield	12.0 MPa	
Break	32.0 MPa	
Tensile Strain (Break)	900 %	JIS K6760
Apparent Bending Modulus	260 MPa	ASTM D747

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	30 µm	
Tensile Modulus		ISO IR 1184
MD : 30 µm	190 MPa	
TD : 30 µm	220 MPa	
Tensile Stress		JIS Z1702
MD : Break, 30 µm	55.0 MPa	
TD : Break, 30 µm	40.0 MPa	
Tensile Elongation		JIS Z1702
MD : Break, 30 µm	550 %	
TD : Break, 30 µm	850 %	
Dart Drop Impact (30 µm)	120 g	ASTM D1709
Elmendorf Tear Strength		ASTM D1922
MD : 30 µm	30 g	
TD : 30 µm	160 g	

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	55	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -70.0 °C	ASTM D746
Vicat Softening Temperature	102 °C	ASTM D1525
Melting Temperature	122 °C	DSC

Optical	Nominal Value Unit	Test Method
Haze (30.0 µm)	11 %	ASTM D1003

Extrusion	Nominal Value Unit
Melt Temperature	190 to 210 °C
Melt Temperature (Aim)	200 °C

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#### Extrusion Notes

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Blow up Ratio: 2 to 4  
Screw Type: LLDPE screw  
Die Lip Gap: 2.0 to 3.0 mm  
Air Ring: Single or Dual Slit (Wide die)

#### 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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## Where to Buy

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### Supplier

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

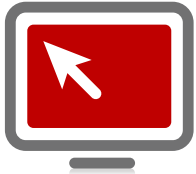
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### Distributor

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