# **QAMAR FC21HN**

Linear Low Density Polyethylene SPDC Ltd.



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# Technical Data

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			JIS K6760
Yield	1740 psi	12.0 MPa	
Break	4640 psi	32.0 MPa	
Tensile Strain (Break)	900 %	900 %	JIS K6760
Apparent Bending Modulus	37700 psi	260 MPa	ASTM D747
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1.2 mil	30 µm	
Tensile Modulus		·	ISO IR 1184
MD: 1.2 mil (30 μm)	27600 psi	190 MPa	
TD: 1.2 mil (30 µm)	31900 psi	220 MPa	
Tensile Stress			JIS Z1702
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			JIS Z1702
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	ASTM D1709
Elmendorf Tear Strength		-	ASTM D1922
MD: 1.2 mil (30 μm)	30 g	30 g	
TD: 1.2 mil (30 µm)	160 g	160 g	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	55	55	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -94.0 °F	< -70.0 °C	ASTM D746
Vicat Softening Temperature	216 °F	102°C	ASTM D1525
Melting Temperature	252 °F	122 °C	DSC
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (1.18 mil (30.0 μm))	11 %	11 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	374 to 410 °F	190 to 210 °C	
Melt Temperature (Aim)	392 °F	200 °C	

#### **Extrusion Notes**

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.



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<sup>&</sup>lt;sup>2</sup> 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 FC21HN



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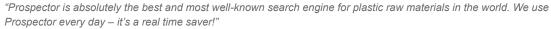


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- Birgit Elvardt Bader, Production Manager, Micotron

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