

# QAMAR FD21HN

Linear Low Density Polyethylene

SPDC Ltd.

**PROSPECTOR®**

www.ulprospector.com

## Technical Data

### Product Description

QAMAR FD21HN 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 FD21HN are:

- Antiblock
- Clarity
- Slip

Typical application of QAMAR FD21HN: Film

### 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)	2.0 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Stress		JIS K6760
Yield	12.0 MPa	
Break	26.0 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	210 MPa	
Tensile Stress		JIS Z1702
MD : Break, 30 µm	40.0 MPa	
TD : Break, 30 µm	35.0 MPa	
Tensile Elongation		JIS Z1702
MD : Break, 30 µm	600 %	
TD : Break, 30 µm	900 %	
Dart Drop Impact (30 µm)	110 g	ASTM D1709
Elmendorf Tear Strength		ASTM D1922
MD : 30 µm	30 g	
TD : 30 µm	140 g	

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	54	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -70.0 °C	ASTM D746
Vicat Softening Temperature	100 °C	ASTM D1525
Melting Temperature	122 °C	DSC

1 of 2



UL and the UL logo are trademarks of UL LLC © 2014. All Rights Reserved.  
UL Prospector | 800-788-4668 or 307-742-9227 | [www.ulprospector.com](http://www.ulprospector.com)

The information presented on this datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Document Created: Friday, September 19, 2014  
Added to Prospector: March, 2008  
Last Updated: 3/11/2008

Optical	Nominal Value Unit	Test Method
Haze (30.0 µm)	14 %	ASTM D1003

Extrusion	Nominal Value Unit
Melt Temperature	170 to 190 °C
Melt Temperature (Aim)	180 °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.
- <sup>2</sup> Typical properties: these are not to be construed as specifications.

**DONG VU MCM**  
Production Trading Service Co.,Ltd

