

QAMAR FD21HS

Linear Low Density Polyethylene

SPDC Ltd.

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Technical Data

Product Description

QAMAR FD21HS is a Linear Low Density Polyethylene material. It is available in North America for blown film or cast film.

Important attributes of QAMAR FD21HS are:

- Antiblock
- Clarity
- Slip

Typical application of QAMAR FD21HS: Film

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• North America		
Additive	• Antiblock	• Slip	
Features	• Antiblocking	• High Clarity	• General Purpose
Uses	• General Purpose	• Slip	• Film
Forms	• Cast Film	• Film	• General Purpose
Processing Method	• Pellets	• Cast Film	
	• Blown Film	• Cast Film	

Physical

	Nominal Value Unit	Test Method
Density	0.918 g/cm ³	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



Optical	Nominal Value Unit	Test Method
Haze (30.0 µm)	12 %	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

- 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.

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