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 • General Purpose	• High Clarity • Slip	
Uses	• Cast Film	• Film	• General Purpose
Forms	• Pellets		
Processing Method	• Blown Film	• Cast Film	

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm³	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

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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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