

Technical Data

Product Description

QAMAR FC21HS 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 FC21HS are:

- Antiblock
- Clarity
- Slip

Typical application of QAMAR FC21HS: Film

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet - Hard Data (English)
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Additive	• Antiblock • Slip
Features	• Antiblocking • General Purpose • High Clarity • Slip
Uses	• Film • General Purpose
Forms	• Pellets
Processing Method	• Blown Film

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	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



QAMAR FC21HSLinear Low Density Polyethylene
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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature	252 °F	122 °C	DSC
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (1.18 mil (30.0 µm))	9.0 %	9.0 %	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

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.

