QAMAR FC21HS

Linear Low Density Polyethylene SPDC Ltd.



General		
Material Status	 Commercial: Active 	
Availability	Africa & Middle EastAsia Pacific	EuropeNorth America
Additive	 Antiblock 	• Slip
Features	AntiblockingGeneral Purpose	High ClaritySlip
Uses	• Film	General Purpose
Forms	 Pellets 	
Processing Method	Blown Film	

hysical	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
echanical	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
lms	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 MD: 1.2 mil (30 µm) TD: 1.2 mil (30 µm)	30 g 160 g	30 g 160 g	ASTM D1922
ardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	55	55	ASTM D2240
nermal	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
otical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (1.18 mil (30.0 μm))	9.0 %	9.0 %	ASTM D1003
ktrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	374 to 410 °F	190 to 210 °C	
Melt Temperature (Aim)	392 °F	200 °C	
xtrusion Notes			

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)

Friday, August 03, 2012

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Notes

¹ Typical properties: these are not to be construed as specifications.

