QAMAR CD18N

Linear Low Density Polyethylene

SPDC Ltd.

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Technical Data

Product Description

QAMAR CD18N is a Linear Low Density Polyethylene material. It is available in Africa & Middle East, Asia Pacific, Europe, or North America for cast film. Primary attribute of QAMAR CD18N: High Flow.

Typical application of QAMAR CD18N: Film

General

Material Status	• Commercial: Active	
Literature [1]	• Technical Datasheet (English)	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Features	• Additive Free	• High Flow
Uses	• Cast Film	
Processing Method	• Cast Film	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm³	0.918 g/cm³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8 g/10 min	2.8 g/10 min	ISO 1872-2
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Stress (Yield)	1310 psi	9.00 MPa	ISO 1872-2
Tensile Strain (Break)	> 430 %	> 430 %	ISO 1872-2
Flexural Modulus	29000 psi	200 MPa	ISO 1872-2
Films	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Film Thickness - Tested	1.2 mil	30 µm	
Tensile Modulus			ISO 527-3
MD : 1.2 mil (30 µm)	27600 psi	190 MPa	
TD : 1.2 mil (30 µm)	30500 psi	210 MPa	
Tensile Stress			ISO 527-3
MD : Break, 1.2 mil (30 µm)	5080 psi	35.0 MPa	
TD : Break, 1.2 mil (30 µm)	4350 psi	30.0 MPa	
Tensile Elongation			ISO 527-3
MD : Break, 1.2 mil (30 µm)	600 %	600 %	
TD : Break, 1.2 mil (30 µm)	900 %	900 %	
Dart Drop Impact (1.2 mil (30 µm))	100 g	100 g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 1.2 mil (30 µm)	6.7 lbf	30 N	
TD : 1.2 mil (30 µm)	27 lbf	120 N	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Shore Hardness (Shore D)	54	54	ISO 868
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Brittleness Temperature	< -94.0 °F	< -70.0 °C	ISO 974
Vicat Softening Temperature	210 °F	99.0 °C	ISO 306
Melting Temperature	252 °F	122 °C	ISO 11357-3
Optical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Haze (1.18 mil (30.0 µm))	12 %	12 %	ISO 14782

Extrusion Notes

Resin Temperature: 180°C
Blow up ratio: 2.0
Extruder: 40mm, L/D=24
Die Diameter: 75mm

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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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