

# QAMAR CD18N

Linear Low Density Polyethylene

SPDC Ltd.

## Message:

QAMAR CD18N is a linear low density polyethylene material. This product is available in North America, Africa and the Middle East, Europe or Asia Pacific. The processing method is: cast film. The main characteristics of QAMAR CD18N are: high liquidity. The typical application fields of QAMAR CD18N are: movies

| General Information                       |                |                   |             |
|-------------------------------------------|----------------|-------------------|-------------|
| Features                                  | High liquidity |                   |             |
|                                           | No additive    |                   |             |
| Uses                                      | cast film      |                   |             |
| Processing Method                         | cast film      |                   |             |
| Physical                                  | Nominal Value  | Unit              | Test Method |
| Density                                   | 0.918          | g/cm <sup>3</sup> | ASTM D4883  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.8            | g/10 min          | ISO 1872-2  |
| Hardness                                  | Nominal Value  | Unit              | Test Method |
| Durometer Hardness (Shore D)              | 54             |                   | ISO 868     |
| Mechanical                                | Nominal Value  | Unit              | Test Method |
| Tensile Stress (Yield)                    | 9.00           | MPa               | ISO 1872-2  |
| Tensile Strain (Break)                    | > 430          | %                 | ISO 1872-2  |
| Flexural Modulus                          | 200            | MPa               | ISO 1872-2  |
| Films                                     | Nominal Value  | Unit              | Test Method |
| Film Thickness - Tested                   | 30             | µm                |             |
| Tensile Modulus                           |                |                   | ISO 527-3   |
| MD : 30 µm                                | 190            | MPa               | ISO 527-3   |
| TD : 30 µm                                | 210            | MPa               | ISO 527-3   |
| Tensile Stress                            |                |                   | ISO 527-3   |
| MD: Break, 30 µm                          | 35.0           | MPa               | ISO 527-3   |
| TD: Break, 30 µm                          | 30.0           | MPa               | ISO 527-3   |
| Tensile Elongation                        |                |                   | ISO 527-3   |
| MD: Break, 30 µm                          | 600            | %                 | ISO 527-3   |
| TD: Break, 30 µm                          | 900            | %                 | ISO 527-3   |
| Dart Drop Impact (30 µm)                  | 100            | g                 | ISO 7765-1  |
| Elmendorf Tear Strength                   |                |                   | ISO 6383-2  |
| MD : 30 µm                                | 30             | N                 | ISO 6383-2  |
| TD : 30 µm                                | 120            | N                 | ISO 6383-2  |
| Thermal                                   | Nominal Value  | Unit              | Test Method |
| Brittleness Temperature                   | < -70.0        | °C                | ISO 974     |

|                             |               |      |             |
|-----------------------------|---------------|------|-------------|
| Vicat Softening Temperature | 99.0          | °C   | ISO 306     |
| Melting Temperature         | 122           | °C   | ISO 11357-3 |
| Optical                     | Nominal Value | Unit | Test Method |
| Haze (30.0 μm)              | 12            | %    | ISO 14782   |

Extrusion instructions

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

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