

# QAMAR FD18N

Linear Low Density Polyethylene  
SPDC Ltd.

Message:

QAMAR FD18N is a linear low density polyethylene material. This product is available in North America, Africa and the Middle East, Europe or Asia Pacific region. The processing method is blow molded film.  
The typical application fields of QAMAR FD18N are: movies

| General Information                       |               |                   |             |
|-------------------------------------------|---------------|-------------------|-------------|
| Features                                  | General       |                   |             |
|                                           | No additive   |                   |             |
| Uses                                      | Films         |                   |             |
|                                           | General       |                   |             |
| Processing Method                         | Blow 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) | 2.0           | 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                          | 40.0          | MPa               | ISO 527-3   |
| TD: Break, 30 µm                          | 35.0          | 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)                  | 110           | g                 | ISO 7765-1  |
| Elmendorf Tear Strength                   |               |                   | ISO 6383-2  |
| MD : 30 µm                                | 30            | N                 | ISO 6383-2  |
| TD : 30 µm                                | 140           | N                 | ISO 6383-2  |

| Thermal                     | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|------|-------------|
| Brittleness Temperature     | < -70.0       | °C   | ISO 974     |
| Vicat Softening Temperature | 100           | °C   | ISO 306     |
| Melting Temperature         | 122           | °C   | ISO 11357-3 |
| Optical                     | Nominal Value | Unit | Test Method |
| Haze (30.0 μm)              | 11            | %    | ISO 14782   |

#### Extrusion instructions

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

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