

Ipethene® 322

Low Density Polyethylene

Carmel Olefins Ltd.

Message:

IPETHENE® 322 is a low density polyethylene extrusion grade, produced by high pressure autoclave technology. This grade is particularly suitable for the production of blown & cast transparent thin films. It has excellent draw-down, good optical and processing properties.

| General Information | |
|---------------------|---|
| Additive | heat stabilizer Moderate caking resistance Moderate smoothness |
| Features | Low density Optical Workability, good Good stripping Thermal Stability Moderate caking resistance Moderate smoothness |
| Uses | Packaging Films Lining Bags Shrinkable film Small Bag-Flexible Package |
| Agency Ratings | EC 1907/2006 (REACH) |
| Forms | Particle |
| Processing Method | Film extrusion Blow film Extrusion cast film |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.920 | g/cm ³ | ISO 1183/A |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ISO 1133 |
| Films | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 527-3 |
| MD: Broken, 50 µm, blown film | 24.0 | MPa | ISO 527-3 |

| TD: Broken, 50 µm, blown film | 21.0 | MPa | ISO 527-3 |
|---|---------------|------|--------------|
| Tensile Elongation | | | ISO 527-3 |
| MD: Broken, 50 µm, blown film | 500 | % | ISO 527-3 |
| TD: Broken, 50 µm, blown film | 750 | % | ISO 527-3 |
| Dart Drop Impact ¹ (50 µm, Blown Film) | 170 | g | ISO 7765-1/A |
| Elmendorf Tear Strength | | | ISO 6383-2 |
| MD: 50 µm, blown film | 0.046 | N | ISO 6383-2 |
| TD: 50 µm, blown film | 0.025 | N | ISO 6383-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 93.0 | °C | ISO 306 |
| Melting Temperature ² | 109 | °C | ISO 11357-3 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 50.0 µm, Blown Film) | 67 | | ASTM D2457 |
| Haze (50.0 µm, Blown Film) | 6.5 | % | ASTM D1003 |
| Additional Information | | | |
| Film properties: Measured on 50 µm blown film, Blow-up ratio 2.5:1, output 10 kg/h, melt temperature ~170 °C. | | | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 155 - 175 | °C | |
| NOTE | | | |
| 1. | F50 | | |
| 2. | By DSC | | |

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