

Lupolen 1840 D

Low Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 1840 D is a non-additivated, low density polyethylene. It is delivered in pellet form.
Foodlaw compliance information about this product can be found in separate product documentation.
This product is not intended for use in medical and pharmaceutical applications.

| General Information | | | |
|---|-----------------------------|-------------------|-------------|
| Features | Workability, good | | |
| | Good flexibility | | |
| | Good tear strength | | |
| | Good toughness | | |
| | Compliance of Food Exposure | | |
| | No additive | | |
| Uses | Films | | |
| | Blow molding applications | | |
| | Bags | | |
| | Industrial application | | |
| | Furniture | | |
| | Building materials | | |
| | Bottle | | |
| | Food packaging | | |
| Forms | Particle | | |
| | | | |
| Processing Method | Blow film | | |
| | Extrusion blow molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.919 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.25 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 200 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 9.00 | MPa | ISO 527-2 |
| Coefficient of Friction (Blown Film) | > 0.80 | | ISO 8295 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 50 | µm | |
| Film Thickness - Recommended / Available | 2.8-8.7 mil (70-220 µm) | | |

| Tensile Strength | | | ISO 527-3 |
|---|---------------|------|-------------|
| MD: 50 µm, blown film | 27.0 | MPa | ISO 527-3 |
| TD: 50 µm, blown film | 25.0 | MPa | ISO 527-3 |
| Tensile Elongation | | | ISO 527-3 |
| MD: Broken, 50 µm, blown film | 200 | % | ISO 527-3 |
| TD: Broken, 50 µm, blown film | 500 | % | ISO 527-3 |
| Dart Drop Impact (50 µm, Blown Film) | 280 | g | ASTM D1709 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 93.0 | °C | ISO 306/A50 |
| Melting Temperature (DSC) | 108 | °C | ISO 3146 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss | | | ASTM D2457 |
| 20, 50.0 µm, blown film | > 10 | | ASTM D2457 |
| 60, 50.0 µm, blown film | > 50 | | ASTM D2457 |
| Haze (50.0 µm, Blown Film) | < 15 | % | ASTM D1003 |
| Additional Information | Nominal Value | Unit | Test Method |
| Failure Energy - Blown Film (70.0 µm) | 65.0 | J/cm | DIN 53373 |
| Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 1:2.5. | | | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 170 - 220 | °C | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

