

Clearflex® H&T FGH B0

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex H&T FGH B0 is a linear low density polyethylene, made by proprietary enhanced Z-N catalyst, suitable for blown film technology. The resin, containing antioxidants, is characterized by a very low density and high molecular weight. Compared to std Clearflex VLDPE grades, Clearflex H&T FGH B0 offers lower seal initiation temperature, excellent optical properties and mechanical performances.

Main Application

Clearflex H&T FGH B0 is recommended to produce blown film requiring a combination of optical properties, puncture resistance and impact strength and very good sealability.

Clearflex H&T FGH B0 is also recommended in the production of Lamination film.

| General Information | | | |
|---|----------------------------------|----------|-------------|
| Additive | Antioxidation | | |
| Features | Low density | | |
| | Low temperature heat sealability | | |
| | High molecular weight | | |
| | Optical | | |
| | Perforation resistance | | |
| | Antioxidation | | |
| | Impact resistance, good | | |
| | Good heat sealability | | |
| | Definition, high | | |
| | Compliance of Food Exposure | | |
| Uses | Films | | |
| | Laminate | | |
| Agency Ratings | European food contact, not rated | | |
| Appearance | Clear/transparent | | |
| Forms | Particle | | |
| Processing Method | Blow film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.911 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.90 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction (vs. Itself - Dynamic, Cast Film) | > 0.50 | | ISO 8295 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Recommended / Available | 10 to 50µm | | |
| Tensile Modulus | | | ISO 527-3 |
| 1% sectioning, MD: Casting Film | 140 | MPa | ISO 527-3 |

| 1% sectioning, TD: Casting Film | 135 | MPa | ISO 527-3 |
|---|---------------|------|-----------------|
| Tensile Stress | | | ISO 527-3 |
| MD: yield, cast film | 5.00 | MPa | ISO 527-3 |
| TD: yield, cast film | 6.00 | MPa | ISO 527-3 |
| MD: fracture, casting film | 31.0 | MPa | ISO 527-3 |
| TD: fracture, casting film | 29.0 | MPa | ISO 527-3 |
| Tensile Elongation | | | ISO 527-3 |
| MD: fracture, casting film | 460 | % | ISO 527-3 |
| TD: fracture, casting film | 660 | % | ISO 527-3 |
| Dart Drop Impact ¹ (Cast Film) | 270 | g | ISO 7765-1/A |
| Elmendorf Tear Strength | | | ISO 6383-2 |
| MD: Cast Film | 75.0 | kN/m | ISO 6383-2 |
| TD: Cast Film | 115.0 | kN/m | ISO 6383-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -75.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 85.0 | °C | ISO 306/A |
| Melting Temperature | 110 | °C | Internal method |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, Cast Film) | 72 | | ASTM D2457 |
| Haze (Cast Film) | 4.0 | % | ISO 14782 |
| Additional Information | | | |
| Films: Typical values for a cast film extruded at 220°-270°C. | | | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 200 - 230 | °C | |
| NOTE | | | |
| 1. | F50 | | |

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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



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