

Petrothene® GA623119

Linear Low Density Polyethylene
LyondellBasell Industries

Message:

Petrothene GA623119 is a hexene LLDPE copolymer selected by customers for applications that require high clarity and good stiffness combined with low COF. It does not contain slip or antiblock additives.

| General Information | | | |
|---|-----------------------------|-------------------|-------------|
| Features | Low friction coefficient | | |
| | Rigid, good | | |
| | hexene comonomer | | |
| | Definition, high | | |
| | Compliance of Food Exposure | | |
| Uses | Blown Film | | |
| | Films | | |
| Agency Ratings | FDA 21 CFR 175.1520 | | |
| Processing Method | Blow film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.923 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Films | Nominal Value | Unit | Test Method |
| secant modulus | | | ASTM D638 |
| 1% secant, MD: 25 µm, cast film | 271 | MPa | ASTM D638 |
| 1% sectioning, MD: 51 µm, cast film | 252 | MPa | ASTM D638 |
| 1% secant, TD: 25 µm, cast film | 290 | MPa | ASTM D638 |
| 1% sectioning, TD: 51 µm, cast film | 285 | MPa | ASTM D638 |
| Tensile Strength | | | ASTM D882 |
| MD: Broken, 25 µm, extruded film | 28.2 | MPa | ASTM D882 |
| MD: fracture, 51 µm, extruded film | 37.2 | MPa | ASTM D882 |
| TD: Broken, 25 µm, extruded film | 29.0 | MPa | ASTM D882 |
| TD: fracture, 51 µm, extruded film | 40.0 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Broken, 25 µm, extruded film | 500 | % | ASTM D882 |
| MD: fracture, 51 µm, extruded film | 740 | % | ASTM D882 |
| TD: Broken, 25 µm, extruded film | 530 | % | ASTM D882 |
| TD: fracture, 51 µm, extruded film | 840 | % | ASTM D882 |
| Dart Drop Impact | | | |
| 25 µm, cast film | 140 | g | ASTM D1709 |

| 51 μm, cast film | 200 | g | ASTM D1709A |
|-------------------------|---------------|------|-------------|
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD: 25 μm, cast film | 330 | g | ASTM D1922 |
| | 540 | | |
| MD: 51 μm, cast film | 890 | g | ASTM D1922 |
| TD: 25 μm, cast film | 540 | g | ASTM D1922 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss | | | ASTM D2457 |
| 25.4 μm, cast film | 90 | | ASTM D2457 |
| 50.8 μm, cast film | 85 | | ASTM D2457 |
| Haze | | | ASTM D1003 |
| 25.4 μm, cast film | 2.4 | % | ASTM D1003 |
| 50.8 μm, cast film | 5.4 | % | ASTM D1003 |

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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

