

Petrothene® GS710060

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

The PETROTHENE SELECT series of resins are pelletized, high performance hexene, linear low density polyethylenes for applications requiring superior strength and toughness. These products offer significant improvements in mechanical properties and excellent additive homogeneity without sacrificing processability compared to conventional Hexene LLDPE materials. GS 710 exhibits superior processability compared to competitive High Performance Hexene LLDPE materials. Applications include trash and can liners, commercial and industrial packaging, as well as consumer packaging. The PETROTHENE SELECT series resins offer enhanced film strength, drawdown, toughness and heat seal strength.

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| Features | Food Contact Acceptable | | |
| | Good Drawdown | | |
| | Good Heat Seal | | |
| | Good Processability | | |
| | Good Strength | | |
| | Low Density | | |
| | Ultra High Toughness | | |
| Uses | Consumer Applications | | |
| | Industrial Applications | | |
| | Liners | | |
| | Packaging | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| Forms | Pellets | | |
| Processing Method | Film Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.924 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.0 | g/10 min | ASTM D1238 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 25 | µm | ASTM D882 |
| Secant Modulus | | | |
| 1% Secant, MD : 25 µm, Blown Film | 193 | MPa | |
| 1% Secant, TD : 25 µm, Blown Film | 200 | MPa | ASTM D882 |
| Tensile Strength | | | |
| MD : Break, 25 µm, Blown Film | 55.2 | MPa | |
| TD : Break, 25 µm, Blown Film | 41.4 | MPa | ASTM D882 |
| Tensile Elongation | | | |
| MD : Break, 25 µm, Blown Film | 580 | % | |
| TD : Break, 25 µm, Blown Film | 720 | % | |

| | | | |
|--------------------------------------|-----|---|-------------|
| Dart Drop Impact (25 μm, Blown Film) | 600 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD : 25 μm, Blown Film | 350 | g | |
| TD : 25 μm, Blown Film | 580 | g | |

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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

