

**Linear Low-Density Polyethylene (LLDPE)****LL-22501AA**

Manufacturer: JAM Petrochemical Company

Manufacturer designation: LL22501AA

**General information**

LLDPE blown-film grade designed for optical properties at low extrusion temperatures. It combines ease of processing and low gels, and is suitable for blending with LDPE and general-purpose applications.

**Applications**

Blown film; general-purpose applications; blending with LDPE.

**Features and additives**

High stiffness; good optical properties; low extrusion temperature; ease of processing; low gels.  
Thermal antioxidant (process stabilizer); catalyst neutralizer (acid scavenger / lubricant).

| Property / test conditions         | Typical value | Unit              | Test method |
|------------------------------------|---------------|-------------------|-------------|
| Melt index, 190°C / 2.16 kg        | 0.95          | g/10 min          | ASTM D1238  |
| Density                            | 0.923         | g/cm <sup>3</sup> | ASTM D1505  |
| Dart impact                        | 70            | g                 | ASTM D1709  |
| Elmendorf tear, MD / TD            | 105 / 436     | g                 | ASTM D1922  |
| Tensile strength at yield, MD / TD | 11 / 12       | MPa               | ASTM D882   |
| Tensile strength at break, MD / TD | 41 / 31       | MPa               | ASTM D882   |
| Ultimate elongation, MD / TD       | 648 / 780     | %                 | ASTM D882   |
| Haze                               | 34            | %                 | ASTM D1003  |
| Gloss, 45°                         | 24            | Gloss value       | ASTM D2457  |

**Test notes and source ranges**

Source ranges: density 0.922-0.924 g/cm<sup>3</sup>; melt flow 0.85-1.05 g/10 min. Film data measured on 25-micron film on a Collin 25; blow-up ratio 2.5:1; temperature profile 155-190°C.

**Processing**

Melt temperature 190-230°C; blow-up ratio 2.0-3.0; die gap 2.0-2.5 mm; film thickness 12-150 microns.

Typical values are for reference and are not guaranteed product specifications. Suitability must be confirmed for the intended use.

**Linear Low-Density Polyethylene (LLDPE)****LL-22501KJ**

Manufacturer: JAM Petrochemical Company

Manufacturer designation: LL22501KJ

**General information**

LLDPE blown-film grade designed for optical properties at low extrusion temperatures. It combines ease of processing and low gels, and is suitable for blending with LDPE and general-purpose applications.

**Applications**

Blown film; general-purpose applications; blending with LDPE.

**Features and additives**

High stiffness; good optical properties; low extrusion temperature; ease of processing; low gels.

Thermal antioxidant (process stabilizer); antiblocking agent; slip agent; catalyst neutralizer (acid scavenger / lubricant).

| Property / test conditions         | Typical value | Unit              | Test method |
|------------------------------------|---------------|-------------------|-------------|
| Melt index, 190°C / 2.16 kg        | 0.95          | g/10 min          | ASTM D1238  |
| Density                            | 0.923         | g/cm <sup>3</sup> | ASTM D1505  |
| Dart impact                        | 70            | g                 | ASTM D1709  |
| Elmendorf tear, MD / TD            | 105 / 436     | g                 | ASTM D1922  |
| Tensile strength at yield, MD / TD | 11 / 12       | MPa               | ASTM D882   |
| Tensile strength at break, MD / TD | 41 / 31       | MPa               | ASTM D882   |
| Ultimate elongation, MD / TD       | 648 / 780     | %                 | ASTM D882   |
| Haze                               | 34            | %                 | ASTM D1003  |
| Gloss, 45°                         | 24            | Gloss value       | ASTM D2457  |

**Test notes and source ranges**

Source ranges: density 0.922-0.924 g/cm<sup>3</sup>; melt flow 0.85-1.05 g/10 min. Film data measured on 25-micron film on a Collin 25; blow-up ratio 2.5:1; temperature profile 155-190°C.

**Processing**

Melt temperature 190-230°C; blow-up ratio 2.0-3.0; die gap 2.0-2.5 mm; film thickness 12-150 microns.

Typical values are for reference and are not guaranteed product specifications. Suitability must be confirmed for the intended use.

**Linear Low-Density Polyethylene (LLDPE)****LL-235F6**

Manufacturer: JAM Petrochemical Company

**General information**

LLDPE resin produced by gas-phase technology for films and agricultural tapes. Balanced molecular weight and distribution provide processability, mechanical properties, melt strength, drawability and good sealability. The supplied source states food-contact approval; confirm applicable requirements for the intended application.

**Applications**

Agricultural films and tapes; lamination; shrink film; industrial films; frozen-food packaging.

**Features and additives**

Good processability; excellent melt strength.

Thermal antioxidant (process stabilizer); catalyst neutralizer (acid scavenger / lubricant).

| Property / test conditions         | Typical value | Unit              | Test method |
|------------------------------------|---------------|-------------------|-------------|
| Melt index, 190°C / 2.16 kg        | 0.6           | g/10 min          | ASTM D1238  |
| Density                            | 0.923         | g/cm <sup>3</sup> | ASTM D1505  |
| Tensile strength at yield, MD / TD | 11.5 / 12     | MPa               | ASTM D882   |
| Tensile strength at break, MD / TD | 47 / 28       | MPa               | ASTM D882   |
| Tensile elongation at break        | >600          | %                 | ASTM D882   |
| Elmendorf tear, MD / TD            | 130 / 470     | g                 | ASTM D1922  |

**Test notes and source ranges**

Source ranges: density 0.922-0.924 g/cm<sup>3</sup>; melt flow 0.5-0.7 g/10 min. Film properties measured on 25-micron blown film at blow-up ratio 2.5. The descriptive paragraph identifies LLDPE; the inconsistent small LDPE label is not used.

Typical values are for reference and are not guaranteed product specifications. Suitability must be confirmed for the intended use.