

# ETILINAS LL0209SA

Linear Low Density Polyethylene  
POLYETHYLENE MALAYSIA SDN BHD

Message:

ETILINAS LL0209SA is a linear low density polyethylene suitable for a variety of film applications. Characteristics include: low gels content, high strength, and slip/antiblocking additives. Applications include: food bags, and shopping bags.

| General Information                       |                                                                                               |          |             |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|----------|-------------|
| Additive                                  | Anti-caking agent<br>slip agent                                                               |          |             |
| Features                                  | Low speed solidification crystal point<br>High strength<br>smoothness<br>Anti-caking property |          |             |
| Uses                                      | Films<br>Bags                                                                                 |          |             |
| Forms                                     | Particle                                                                                      |          |             |
| Physical                                  | Nominal Value                                                                                 | Unit     | Test Method |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.90                                                                                          | g/10 min | ISO 1133    |
| Films                                     | Nominal Value                                                                                 | Unit     | Test Method |
| Tensile Stress                            |                                                                                               |          | ISO 527-3   |
| MD: Yield                                 | 11.0                                                                                          | MPa      | ISO 527-3   |
| TD: Yield                                 | 12.0                                                                                          | MPa      | ISO 527-3   |
| MD : 38 µm                                | 40.0                                                                                          | MPa      | ISO 527-3   |
| TD : 38 µm                                | 31.0                                                                                          | MPa      | ISO 527-3   |
| Tensile Elongation                        |                                                                                               |          | ISO 527-3   |
| MD: Fracture, 38 µm                       | 650                                                                                           | %        | ISO 527-3   |
| TD: Fracture, 38 µm                       | 850                                                                                           | %        | ISO 527-3   |
| Dart Drop Impact (38 µm)                  | 160                                                                                           | g        | ISO 7765-1  |
| Elmendorf Tear Strength                   |                                                                                               |          | ISO 6383-2  |
| MD : 38 µm                                | 2.4                                                                                           | N        | ISO 6383-2  |
| TD : 38 µm                                | 6.0                                                                                           | N        | ISO 6383-2  |
| Thermal                                   | Nominal Value                                                                                 | Unit     | Test Method |
| Vicat Softening Temperature               | 100                                                                                           | °C       | ISO 306     |
| Melting Temperature (DSC)                 | 122                                                                                           | °C       | ISO 3146    |
| Optical                                   | Nominal Value                                                                                 | Unit     | Test Method |

|                        |    |   |            |
|------------------------|----|---|------------|
| Gloss (45°, 38.0 μm)   | 52 |   | ASTM D2457 |
| Haze (38.0 μm)         | 12 | % | ASTM D1003 |
| Additional Information |    |   |            |

Density, ISO 1872/1, Annealed: 921 kg/m<sup>3</sup>Melting Point, ISO 3146, Method C: 122°C

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