

TECHNICAL DATASHEET

LDPE QBL002AB

PRODUCT DESCRIPTION

QBL002AB is a low density homopolymer resin selected by customers for use in shrink packaging, bundling, pallet wrap and heavy-duty liner applications. Excellent bubble stability, melt strength, impact and shrinkage are key attributes of QBL002AB.

| TYPICAL PROPERTIES | ENGLISH | | SI | | TEST METHOD |
|--|-------------------|-------|-----------------------|-------|-----------------|
| | UNIT | VALUE | UNIT | VALUE | |
| Physical | | | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | g/10 min | 0.25 | g/10 min | 0.25 | ASTM D1238 |
| Base Resin Density, (23 °C) | g/cm ³ | 0.920 | g/cm ³ | 0.920 | ASTM D1505 |
| Product Density, (23 °C) | g/cm ³ | 0.922 | g/cm ³ | 0.922 | ASTM D1505 |
| Mechanical | | | | | |
| Tensile Strength at Break | psi | 2600 | MPa | 17.9 | ASTM D638 |
| Tensile Strength at Yield | psi | 1420 | MPa | 9.79 | ASTM D638 |
| Tensile Elongation at Break | % | 700 | % | 700 | ASTM D638 |
| Tensile Elongation at Yield | % | 100 | % | 100 | ASTM D638 |
| Film | | | | | |
| Dart Drop Impact Strength, F50 | g | 180 | g | 180 | ASTM D1709 |
| Tensile Strength at Break (MD) | psi | 3000 | MPa | 20.7 | ASTM D882 |
| Tensile Strength at Break (TD) | psi | 2800 | MPa | 19.3 | ASTM D882 |
| Tensile Elongation at Break (MD) | % | 310 | % | 310 | ASTM D882 |
| Tensile Elongation at Break (TD) | % | 430 | % | 430 | ASTM D882 |
| 1% Secant Modulus (MD) | psi | 30000 | MPa | 207 | ASTM D882 |
| 1% Secant Modulus (TD) | psi | 35000 | MPa | 241 | ASTM D882 |
| Water Vapor Transmission Rate | | | g/m ² /day | 10 | ASTM F1249 |
| Hardness | | | | | |
| Shore Hardness, (Shore D) | | 45 | | 45 | ASTM D2240 |
| Thermal | | | | | |
| Vicat Softening Temperature | °F | 199 | °C | 93 | ASTM D1525 |
| Low Temperature Brittleness, F ₅₀ | °F | -103 | °C | -75 | ASTM D746 |
| Additive | | | | | |
| Slip | | None | | None | Producer Method |
| Antiblock | ppm | 4000 | ppm | 4000 | Producer Method |

Notes: Data obtained from 1.25 mil (32 micron) film produced on a blown film line with an 8" (203 mm) die, 350°F (177°C) melt temperature, 2:1 BUR, 0.025" die gap at 150 lbs/hr. These are typical property values not to be construed as specification limits.

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QBL002AB

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APPLICATION:

Agriculture Film; Bags & Pouches; Can Liners; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Liner Film; Shrink Film; Specialty Film; Textile Packaging Film

PROCESSING METHOD:

Blown Film

PROCESSING TECHNIQUES:

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

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