

Polymer-E B231

Low Density Polyethylene
Asia Polymer Corporation (APC)

Message:

Polymer-E B231 is a Low Density Polyethylene product. It is available in Asia Pacific. Applications of Polymer-E B231 include film and packaging. Characteristics include:
Good Sealability
Impact Resistant
Low Temperature Resistant

| General Information | | | |
|---|---------------------------|-------------------|-----------------|
| Features | Good Heat Seal | | |
| | High Impact Resistance | | |
| | Low Temperature Resistant | | |
| Uses | Film | | |
| | Food Packaging | | |
| Appearance | Natural Color | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.926 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Vinyl Acetate Content | 2.5 | wt% | Internal Method |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 49 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction | < 0.12 | | ASTM D1894 |
| Films | Nominal Value | Unit | Test Method |
| Secant Modulus | | | ASTM D882 |
| 1% Secant, MD : 32 µm, Blown Film | 98.1 | MPa | |
| 1% Secant, TD : 32 µm, Blown Film | 177 | MPa | |
| Tensile Strength | | | ASTM D882 |
| MD : Break, 32 µm,Blown Film | 21.6 | MPa | |
| TD : Break, 32 µm,Blown Film | 19.6 | MPa | |
| Tensile Elongation | | | ASTM D882 |
| MD : Break, 32 µm,Blown Film | 380 | % | |
| TD : Break, 32 µm,Blown Film | 550 | % | |
| Dart Drop Impact (32 µm, Blown Film) | 150 | g | ASTM D1709 |
| Elmendorf Tear Strength ¹ | | | ASTM D1922 |
| MD : 31.8 µm | 53.9 | kN/m | |
| TD : 31.8 µm | 68.6 | kN/m | |

| Thermal | Nominal Value | Unit | Test Method |
|--|---------------|------|-----------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 48.0 | °C | ASTM D648 |
| Brittleness Temperature | < -70.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 93.0 | °C | ASTM D1525 |
| Melting Temperature | 106 | °C | Internal Method |
| Optical | Nominal Value | Unit | Test Method |
| Gardner Gloss (60°, 31.8 µm, Blown Film) | 100 | | ASTM D523 |
| Haze (31.8 µm, Blown Film) | 6.5 | % | ASTM D1003 |
| NOTE | | | |
| 1. | Blown Film | | |

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