

Ultrathene® UE624000

Ethylene Vinyl Acetate Copolymer

LyondellBasell Industries

Message:

Ultrathene UE624000 is an EVA copolymer with excellent flexibility and low temperature properties. UE624000 is selected by customers for use in medium to heavy gauge film applications as well as injection and blow molding.

| General Information | |
|---------------------|---------------------------|
| Features | Copolymer |
| | Good Flexibility |
| | Low Temperature Resistant |
| Uses | Film |
| Agency Ratings | FDA 21 CFR 177.1350 |
| Forms | Pellets |
| Processing Method | Blow Molding |
| | Film Extrusion |
| | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------|
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.1 | g/10 min | ASTM D1238 |
| Vinyl Acetate Content | 18.0 | wt% | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 91 | | ASTM D2240 |
| Films | Nominal Value | Unit | Test Method |
| Secant Modulus | | | ASTM D882 |
| 1% Secant, MD | 51.7 | MPa | |
| 1% Secant, TD | 59.3 | MPa | |
| Tensile Strength | | | ASTM D882 |
| MD : Yield | 4.68 | MPa | |
| TD : Yield | 4.30 | MPa | |
| MD : Break | 41.0 | MPa | |
| TD : Break | 30.3 | MPa | |
| Tensile Elongation | | | ASTM D882 |
| MD : Yield | 9.0 | % | |
| TD : Yield | 9.0 | % | |
| MD : Break | 410 | % | |
| TD : Break | 560 | % | |
| Dart Drop Impact (38 µm) | 610 | g | ASTM D1709 |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|-----------------------------|---------------|------|------------|
| Brittleness Temperature | < -76.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 65.0 | °C | ASTM D1525 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | < 232 | °C | |

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