

HANWHA LLDPE 3304

Linear Low Density Polyethylene
Hanwha Chemical

Message:

HANWHA LLDPE 3304 is manufactured by Spherilene process and designed for general purpose film. LLDPE 3304 has well balanced property of mechanical property and processability.

| General Information | |
|---------------------|---|
| Additive | Anti-caking agent Antioxidation slip agent |
| Features | smoothness Anti-caking property Antioxidation Workability, good General |
| Uses | Films |
| Agency Ratings | FDA 21 CFR 177.1520(c) 3.1a |
| Forms | Particle |
| Processing Method | Film extrusion Blow film |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.922 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.1 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 21.6 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 900 | % | ASTM D638 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 30 | µm | |
| Tensile Strength | | | ASTM D882 |
| MD: Break, 30 µm | 40.2 | MPa | ASTM D882 |
| TD: Break, 30 µm | 36.3 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Break, 30 µm | 550 | % | ASTM D882 |
| TD: Break, 30 µm | 700 | % | ASTM D882 |
| Dart Drop Impact (30 µm) | 130 | g | ASTM D1709 |
| Tensile Tear Strength | | | ASTM D1004 |

| MD : 30.0 μm | 117.7 | kN/m | ASTM D1004 |
|-----------------------------|---------------|------|-----------------|
| TD : 30.0 μm | 122.6 | kN/m | ASTM D1004 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -76.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 105 | °C | ASTM D1525 |
| Peak Melting Temperature | 125 | °C | Internal method |
| Optical | Nominal Value | Unit | Test Method |
| Haze (30.0 μm) | 12 | % | ASTM D1003 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 150 - 190 | °C | |
| Extrusion instructions | | | |

Blow-up Ratio: 2 to 3 Optimum Gage Range: 0.03 to 0.1 mm

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