

HANWHA EVA 2050

Ethylene Vinyl Acetate Copolymer

Hanwha Chemical

Message:

HANWHA EVA 2050 is manufactured by DOW tubular high pressure process and designed for variety of film application such as multiplayer agricultural film. EVA 2050 has well balanced property of high clarity, mechanical property and processability.

| General Information | | | |
|---------------------|---------------------------|--|--|
| Additive | Antioxidation | | |
| Features | Antioxidation | | |
| | Workability, good | | |
| | Definition, high | | |
| Uses | Films | | |
| | Agricultural application | | |
| Agency Ratings | FDA 21 CFR 177.1350(a)(1) | | |
| Forms | Particle | | |
| Processing Method | Film extrusion | | |
| | Blow film | | |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.931 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.0 | g/10 min | ASTM D1238 |
| Vinyl Acetate Content | 12.0 | wt% | |

| Mechanical | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Tensile Strength (Break) | 19.6 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 780 | % | ASTM D638 |

| Films | Nominal Value | Unit | Test Method |
|--------------------------|---------------|------|-------------|
| Film Thickness - Tested | 60 | μm | |
| Tensile Strength | | | ASTM D882 |
| MD: Break, 60 μm | 27.9 | MPa | ASTM D882 |
| TD: Break, 60 μm | 26.5 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Break, 60 μm | 370 | % | ASTM D882 |
| TD: Break, 60 μm | 680 | % | ASTM D882 |
| Dart Drop Impact (60 μm) | > 400 | g | ASTM D1709 |
| Tensile Tear Strength | | | ASTM D1004 |
| MD : 60.0 μm | 73.5 | kN/m | ASTM D1004 |
| TD : 60.0 μm | 78.5 | kN/m | ASTM D1004 |

| Thermal | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|------|-----------------|
| Brittleness Temperature | < -76.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 72.0 | °C | ASTM D1525 |
| Peak Melting Temperature | 96.0 | °C | Internal method |
| Optical | Nominal Value | Unit | Test Method |
| Haze (60.0 μm) | 1.5 | % | ASTM D1003 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 140 - 170 | °C | |
| Extrusion instructions | | | |

Blow-up Ratio: 2 to 3 Optimum Gage Range: 0.05 to 0.1 mm

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