

RELENE® F46003E

High Density Polyethylene
Reliance Industries Limited

Message:

F46003E is a High Density Polyethylene grade suitable for general purpose blown film applications. The resin offers good melt strength, ESCR and Impact Resistance.

| General Information | | | |
|---|--|-------------------|-------------|
| Features | High ESCR (Stress Cracking Resistance) | | |
| | Impact resistance, good | | |
| | Good melt strength | | |
| | Compliance of Food Exposure | | |
| Uses | Films | | |
| Agency Ratings | FDA 21 CFR 177.1520 | | |
| | IS 10141-1982 | | |
| | IS 10146-1982 | | |
| Processing Method | Blow film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.953 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.0 | g/10 min | ASTM D1238 |
| Films | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D882 |
| MD: Yield, 40 µm, blown film | 29.0 | MPa | ASTM D882 |
| TD: Yield, 40 µm, blown film | 26.0 | MPa | ASTM D882 |
| MD: Broken, 40 µm, blown film | 45.0 | MPa | ASTM D882 |
| TD: Broken, 40 µm, blown film | 40.0 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Broken, 40 µm, blown film | 780 | % | ASTM D882 |
| TD: Broken, 40 µm, blown film | 950 | % | ASTM D882 |
| Dart Drop Impact (40 µm, Blown Film) | 80 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD: 40 µm, blown film | 16 | g | ASTM D1922 |
| TD: 40 µm, blown film | 18 | g | ASTM D1922 |

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