

TIPELIN® FS 340-03

Medium Density Polyethylene

MOL Petrochemicals Co. Ltd.

Message:

TIPELIN FS 340-03 is a film grade of medium density polyethylene copolymer (with hexen-1 as comonomer) that has very good Elmendorf Tear Resistance and excellent Dart Drop Resistance. The grade contains antioxidants and acid scavenger.

Applications

TIPELIN FS 340-03 is recommended for bags, shopping bags, garbage bags, shrink films, multi-layer films and blend component for LDPE.

TIPELIN FS 340-03 is suitable for food contact. The product complies with Food Contact Regulations.

| General Information | | | |
|---------------------------|-------------------------|-------------------|-------------|
| Additive | Acid Neutralizer | | |
| | Antioxidant | | |
| Features | Antioxidant | | |
| | Food Contact Acceptable | | |
| | Good Impact Resistance | | |
| | Hexene Comonomer | | |
| | High Tensile Strength | | |
| | Recyclable Material | | |
| Uses | Bags | | |
| | Blending | | |
| | Film | | |
| | Heavy-duty Bags | | |
| | Multilayer Film | | |
| | Shrink Wrap | | |
| Forms | Pellets | | |
| Processing Method | Blown Film | | |
| | Film Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.935 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) | | | ISO 1133 |
| 190°C/2.16 kg | 0.17 | g/10 min | |
| 190°C/21.6 kg | 14 | g/10 min | |
| 190°C/5.0 kg | 0.78 | g/10 min | |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore D) | 59 | | ISO 868 |
| Films | Nominal Value | Unit | Test Method |

| Film Thickness - Tested | 25 | μm | |
|---------------------------------------|---------------|------|--------------|
| Tensile Stress | | | ISO 527-3 |
| MD : Yield, 25 μm, Blown Film | 22.0 | MPa | |
| TD : Yield, 25 μm, Blown Film | 19.0 | MPa | |
| MD : 25 μm, Blown Film | 50.0 | MPa | |
| TD : 25 μm, Blown Film | 48.0 | MPa | |
| Tensile Elongation | | | ISO 527-3 |
| MD : Break, 25 μm, Blown Film | 650 | % | |
| TD : Break, 25 μm, Blown Film | 830 | % | |
| Dart Drop Impact (25 μm, Blown Film) | 120 | g | ISO 7765-1/A |
| Elmendorf Tear Strength | | | ISO 6383-2 |
| MD : 25 μm, Blown Film | 0.50 | N | |
| TD : 25 μm, Blown Film | 3.8 | N | |
| Spencer Impact - Blown Film (25.0 μm) | 39.0 | MPa | ASTM D3420 |
| Oxidation Induction Time (200°C) | 65 | min | EN 728 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 117 | °C | ISO 306/A120 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 200 to 220 | °C | |

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