



Lupolen 2427 F

Polyethylene, Low Density

Product Description

Lupolen 2427 F is an additivated, low density polyethylene. It contains an antioxidant, slip and anti-blocking agent. It is delivered in pellet form.

Foodlaw compliance information about this product can be found in separate product documentation.

This product is not intended for use in medical and pharmaceutical applications.

Product Characteristics

| | |
|-------------------------------|--|
| Status | Commercial: Active |
| Test Method used | ISO |
| Availability | Europe, Asia-Pacific, Africa-Middle East |
| Processing Methods | Blown Film |
| Features | Unspecified Antiblocking , Low Friction, Opticals, Good Processability, Unspecified Slip |
| Typical Customer Applications | Bags & Pouches, Blown Film, Film, Food Packaging Film, Shrink Film |

| Typical Properties | Method | Value | Unit |
|--|---------------|------------|----------|
| Physical | | | |
| Density | ISO 1183 | 0.924 | g/cm³ |
| Melt flow rate (MFR) (190°C/2.16kg) | ISO 1133 | 0.75 | g/10 min |
| Mechanical | | | |
| Dart drop impact (50µm, Blown Film) | ASTM D 1709 | 150 | g |
| Tensile Modulus | ISO 527-1, -2 | 260 | MPa |
| Tensile Stress at Yield | ISO 527-1, -2 | 11.0 | MPa |
| Tensile Strength | ISO 527-1, -3 | | |
| | | 24.0 | MPa |
| Note: MD | | | |
| | | 22.0 | MPa |
| Note: TD | | | |
| Tensile Strain at Break | ISO 527-1, -3 | | |
| | | 300 | % |
| Note: MD | | | |
| | | 600 | % |
| Note: TD | | | |
| Thermal | | | |
| Vicat softening temperature (A50 (50°C/h 10N)) | ISO 306 | 96.0 | °C |
| Melting Temperature | ISO 3146 | 111 | °C |
| Optical | | | |
| Haze (50µm) | ASTM D 1003 | <9 | % |
| Gloss | ASTM D 2457 | | |
| (20°, 50µm) | | >40 | |
| (60°, 50µm) | | >90 | |
| Film | | | |
| Melt Temperature | | 170 to 220 | °C |

Additional Properties

Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 1:2.5.
Natural Silica, ISO 3451-1: 0.09%
Erucamide, DIN 51451: 0.05%
Failure Energy, DIN 53373, 50µm: 5.5 J/mm
Coefficient of Friction, ISO 8295: <20%
Recommended Thickness: 25 to 80 µm

Notes

Typical properties; not to be construed as specifications.