

Product Data

TITANEX HF1881 FOR HDPE FILM

CHARACTER HF1881 is a pelleted medium molecular weight, high density polyethylene Hexene-1 resin for tubular film extrusion. HF1881 meets the U.S. Food and Drug Administration (FDA) criteria for food contact use as specified in 21 CFR 177.1520 (c) 3.1a & 3.2a.

APPLICATIONS Grocery sacks, shopping bags, liners and thin films.

ADVANTAGES Specially designed for high extrusion rate at lower temperature, good film strength and rigidity, excellent drawdown for high quality thin film, when better strength is needed, mixing with HF0961 will provide a balance between strength and extrudability.

| <u>TYPICAL RESIN PROPERTIES</u> | <u>UNIT</u> | <u>TITANEX HF1881</u> ^(a) | <u>ASTM METHOD</u> ^(b) |
|---------------------------------|-------------------|--------------------------------------|-----------------------------------|
| Melt index, I ₂ | g/10 min. | 0.2 | D 1238 |
| Melt index, I ₂₁ | g/10 min. | 18 | D 1238 |
| Density | g/cm ³ | 0.948 | D 1505 |

TYPICAL FILM PROPERTIES ^(c)

| | | | |
|---------------------------------|--------------------|------------------|--------|
| Tensile Strength at Break MD/TD | kg/cm ² | 550/400 | D 882 |
| Ultimate Elongation MD/TD | % | 350/500 | D 882 |
| 1% Secant Modulus MD/TD | kg/cm ² | 9300/9500 | D 882 |
| Elmendorf Tear MD/TD | g/μm | 0.3/4 | D 1922 |
| Dart Impact Strength | g/μm | 8 | D 1709 |

(a) Values shown are typical and are not to be considered as specifications.

(b) ASTM test methods are latest under the Society's current procedures.

(c) Film properties are typical blown film of 17 microns extruded at 4:1 BUR.

Processing conditions

| | |
|-------------------|-----------------------------|
| Melt temperature | : 180 - 220°C |
| BUR | : 4:1 |
| Frost line height | : 7 - 12 times die diameter |

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