

Product Data

TITANZEX HF7000 FOR FILM EXTRUSION

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|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHARACTER | HF7000 is a high density polyethylene resin for tubular film extrusion. HF7000 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 | Very thin reinforcing film, Grocery bags, Merchandize bags, Disposal waste bags, Shopping bags |
| ADVANTAGES | Excellent processability, excellent draw down capability and high film strength and rigidity |

| <u>TYPICAL RESIN PROPERTIES</u> | <u>UNIT</u> | <u>HF7000</u> ^(a) | <u>ASTM METHOD</u> ^(b) |
|---------------------------------|-------------------|------------------------------|-----------------------------------|
| Melt index | g/10 min. | 0.05 | D 1238 |
| Density | g/cm ³ | 0.953 | D 1505 |

TYPICAL FILM PROPERTIES ^(c)

| | | | |
|--------------------------------------|--------------------|--------------------|--------|
| Tensile Strength at Break MD/TD | kg/cm ² | 800/550 | D 882 |
| Ultimate Elongation MD/TD | % | 250/660 | D 882 |
| 1% Secant Modulus MD/TD | kg/cm ² | 13000/12000 | D 882 |
| Elmendorf Tear MD/TD | g/μm | 0.3/3 | D 1922 |
| Dart Impact Strength F ₅₀ | g/μm | 11 | 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 - 240°C |
| BUR | : 4:1 |
| Frost line height | : 7 - 12 times die diameter |

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