



## TECHNICAL DATA SHEET (TDS)

# LDPE LD075FR LOW DENSITY POLYETHYLENE

### **OVERVIEW:**

Good strength and toughness.

Applications shrink film, industrial packaging, Freezer film.

Complies with the specifications U.S FDA 21 CFR 177.1520 ( C ) 3.2 a.

### **ADDITIVE:**

| Properties                            | Test Method | Units    | Nominal Values |
|---------------------------------------|-------------|----------|----------------|
| <b>Melt Index (190° C/2.16 Kg)</b>    | ASTM D1238  | g/10 min | 0.7            |
| <b>Density</b>                        | ASTM D792   |          | 0.921          |
| <b>Film Properties</b>                |             |          |                |
| <b>Tensile strength at yield MD</b>   | ASTM D882   | Psi      | 3700           |
| <b>Tensile strength at yield TD</b>   | ASTM D882   | Psi      | 2800           |
| <b>Elongation MD</b>                  | ASTM D882   | %        | 150            |
| <b>Elongation TD</b>                  | ASTM D882   | %        | 500            |
| <b>1% Secant Modulus MD</b>           | ASTM D882   | Psi      | 29000          |
| <b>1% Secant Modulus TD</b>           | ASTM D882   | Psi      | 35500          |
| <b>Haze</b>                           | ASTM D1003  | %        | 15             |
| <b>Gloss @ 45°</b>                    | ASTM D2457  |          | 45             |
| <b>Dart Drop Impact Strength, F50</b> | ASTM        | g        | 150            |
| <b>Elmendorf Tear Strength MD/TD</b>  | ASTM D1922  | g        | 330/150        |

*The values were measured on a 38 µm film in a blown film line with 2.5:1BUR and 2.54 mm die gap*

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