

# TOTAL Polyethylene D3720

Medium Density Polyethylene

TOTAL Refining & Chemicals

Message:

- Medium Molecular Weight
- Medium Density Resin
- Characteristics
  - Excellent balance of stiffness and impact strength
  - Good puncture resistance
  - Excellent stress crack resistance
  - Good tensile strength
  - Good heat sealing characteristics
  - Enhanced additive package for improved thermal stability
- Applications
  - Irrigation Drip Tape
  - Geoliner

| General Information       |                                  |                   |             |
|---------------------------|----------------------------------|-------------------|-------------|
| Additive                  | Unspecified Additive             |                   |             |
| Features                  | Good Heat Seal                   |                   |             |
|                           | Good Impact Resistance           |                   |             |
|                           | Good Stiffness                   |                   |             |
|                           | High ESCR (Stress Crack Resist.) |                   |             |
|                           | High Tensile Strength            |                   |             |
|                           | Medium Density                   |                   |             |
|                           | Medium Molecular Weight          |                   |             |
|                           | Puncture Resistant               |                   |             |
| Uses                      | Liners                           |                   |             |
|                           | Tape                             |                   |             |
| Agency Ratings            | EC 1907/2006 (REACH)             |                   |             |
| Forms                     | Pellets                          |                   |             |
| Processing Method         | Film Extrusion                   |                   |             |
| Physical                  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity          | 0.935                            | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) |                                  |                   | ASTM D1238  |
| 190°C/2.16 kg             | 0.25                             | g/10 min          |             |
| 190°C/21.6 kg             | 21                               | g/10 min          |             |
| Films                     | Nominal Value                    | Unit              | Test Method |
| Secant Modulus            |                                  |                   | ASTM D882   |
| 1% Secant, MD             | 441                              | MPa               |             |
| 1% Secant, TD             | 586                              | MPa               |             |
| Tensile Strength          |                                  |                   | ASTM D882   |

|                          |               |      |             |
|--------------------------|---------------|------|-------------|
| MD : Yield               | 12.4          | MPa  |             |
| TD : Yield               | 19.3          | MPa  |             |
| MD : Break               | 57.2          | MPa  |             |
| TD : Break               | 36.5          | MPa  |             |
| Tensile Elongation       |               |      | ASTM D882   |
| MD : Break               | 500           | %    |             |
| TD : Break               | 900           | %    |             |
| Elmendorf Tear Strength  |               |      | ASTM D1922  |
| MD                       | 18            | g    |             |
| TD                       | 1400          | g    |             |
| Thermal                  | Nominal Value | Unit | Test Method |
| Peak Melting Temperature | 126           | °C   | ASTM D3417  |
| Additional Information   | Nominal Value | Unit | Test Method |
| Dart Impact              | < 50          | g    | ASTM D1709  |
| Extrusion                | Nominal Value | Unit |             |
| Melt Temperature         | 193 to 216    | °C   |             |

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