

# TOTAL Polyethylene HDPE 7194

High Density (MMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 7194 is a high density (MMW) polyethylene material. This product is available in North America and is processed by extrusion. The main characteristics of TOTAL Polyethylene 7194 are: compliance with REACH standard.

Typical application areas include:

textile/fiber

Movie

glue/gummed paper

medical/health care

| General Information                                     |                                      |                   |             |
|---|--------------------------------------|-------------------|-------------|
| Features  | Narrow molecular weight distribution |                   |             |
|   | Medium molecular weight              |                   |             |
| Uses  | Films                                |                   |             |
|   | Strap                                |                   |             |
|   | monofilament                         |                   |             |
|   | Fabric                               |                   |             |
| Agency Ratings  | EC 1907/2006 (REACH)                 |                   |             |
|   | USP Class VI                         |                   |             |
| Forms   | Particle                             |                   |             |
| Processing Method                                       | Extrusion                            |                   |             |
| Physical  | Nominal Value                        | Unit              | Test Method |
| Specific Gravity  | 0.946                                | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                               |                                      |                   | ASTM D1238  |
| 190°C/2.16 kg   | 0.55                                 | g/10 min          | ASTM D1238  |
| 190°C/5.0 kg  | 1.9                                  | g/10 min          | ASTM D1238  |
| Mechanical  | Nominal Value                        | Unit              | Test Method |
| Tensile Modulus - 2% Secant <sup>1</sup>                | 689                                  | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)                   | 22.1                                 | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break)                 | 500                                  | %                 | ASTM D638   |
| Flexural Modulus  | 793                                  | MPa               | ASTM D790   |
| Thermal   | Nominal Value                        | Unit              | Test Method |
| Peak Melting Temperature                                | 125                                  | °C                | ASTM D3418  |
| Additional Information                                  |                                      |                   |             |
| Elongation at Break, ASTM D638, Type IV, 2 in/min: 500% |                                      |                   |             |
| NOTE  |                                      |                   |             |
| 1.  | Type 4, 51mm/min                     |                   |             |

|    |                  |
|----|------------------|
| 2. | Type 4, 51mm/min |
| 3. | Type 4, 51mm/min |

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