

# TOTAL Polyethylene HDPE 51090

High Density Polyethylene  
TOTAL Refining & Chemicals

Message:

HDPE 51090 is a semi high molecular weight (SHMW) high density polyethylene (HDPE) with high resistance to impact and excellent Environmental Stress Crack Resistance (ESCR). It has been specifically designed for the manufacture of blow moulded articles (jerry-cans) dedicated for the transportation of dangerous goods.  
HDPE 51090 is a pellet grade and contains antioxidants.

| General Information                       |                                  |                   |             |
|---|----------------------------------|-------------------|-------------|
| Additive                                  | Antioxidant                      |                   |             |
| Features                                  | Antioxidant                      |                   |             |
|   | High ESCR (Stress Crack Resist.) |                   |             |
|   | High Impact Resistance           |                   |             |
| Uses                                      | Blow Molding Applications        |                   |             |
|   | Jerricans                        |                   |             |
| Agency Ratings                            | EC 1907/2006 (REACH)             |                   |             |
| Forms                                     | Pellets                          |                   |             |
| Processing Method                         | Blow Molding                     |                   |             |
| Physical                                  | Nominal Value                    | Unit              | Test Method |
| Density                                   | 0.950                            | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/21.6 kg) | 7.0                              | g/10 min          | ISO 1133    |
| FNCT                                      | 1.1                              | day               | ISO 16770   |
| Impact                                    | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength (-30°C)    | 20                               | kJ/m <sup>2</sup> | ISO 179     |
| Injection                                 | Nominal Value                    | Unit              |             |
| Processing (Melt) Temp                    | 180 to 220                       | °C                |             |

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