**HDPE - High Density Polyethylene**

High Density Polyethylene (HDPE) is manufactured from the semi-crystalline polyethylene (PE) family. HDPE is available in various grades depending on the application requirements.

HDPE Grades available are Polystone PG100 and Polystone 300.

**Polystone PG100**

Polystone PG100 [HDPE](http://www.dotmar.com.au/hdpe.html) sheet is a PE100 pipe grade HDPE sheet exhibiting outstanding properties that deliver tangible benefits to the fabrication industry through the degauging of HDPE sheet materials, improved chemical resistance & environmental stress crack resistance over PE80 HDPE sheets.

Polystone PG100 sheet (Pipe Grade) is approved for chemical engineering and tank building and meets the strict requirements set for pipe-grade HDPE sheet. Offering peace of mind in terms of performance and safety, Polystone PG100 is the logical choice.

Key Benefits:

* 100% weld integrity with PE100 pipe
* Superior, long term material strength
* Exceptional weld strength
* Degauge material from PE80 and standard HDPE
* Construction of higher tanks
* Superior acid resistance
* Improved environmental stress cracking resistance – up to 100 times better than standard HDPE sheets
* Shorter welding times and easier bending of thinner sheets
* Weatherproof with exceptional UV stability

Applications:

* Tanks
* Vessels
* Flanges
* Waste water parts
* Pipe fittings
* Pit covers

**Polystone 300**

Polystone 300 [HDPE](http://www.dotmar.com.au/hdpe.html) sheets and weld rod are manufactured in accordance with PE80 guidelines. Polystone 300 HDPE sheets are a rigid material available in large sheets sizes and varying colours such as black, natural and safety yellow. Polystone 300 is ideal for general use in plant engineering, tank construction and waste water industry, where all round chemical resistance and weatherability are required. Polystone 300 HDPE rod is available in a vast arrange of diameters in natural and black.

Key Benefits:

* Weldable/Bendable - suitable for fabrication
* UV Resistant - Black only
* Physiologically inert - approved for food applications (Natural only)
* Electrical insulation - it is a good insulator
* Weatherproof - it doesn't absorb water
* Chemical resistance - resists corrosive chemicals (e.g. Sulphuric Acid, Caustic Soda)

Applications:

* Tanks
* Storage Vessels
* Waste Water Chemical Process Industry
* Cutting Boards
* Butchers Preparation Table

**Related Industries:**

Food-Beverage-Packaging

High Performance

Waste Water

|  |  |  |  |
| --- | --- | --- | --- |
| Product | Standard Colours | Standard Sizes | Standard Product Forms |
| PG100 | Black | 3000x1500 | Sheet |
| Polystone 300 | Black, Natural, Yellow | 3000x1500, 2000x1000,2000x1500, 1500x1500,3000x1000, 1500x500,15000x1000, 3000x500 | Sheet, Rod |