

# POLYSTONE HD300 Product Information

## Product Description

High Density Polyethylene - Natural  
- Black

A very rigid material available in large sheets for general use in plant engineering, tank construction and waste water industry. Where all round chemical resistance and weatherability are required.

## Delivery Program

**ROD** Diameters ranging from 20mm to 250mm

**SHEET** Thicknesses from 1mm to 160mm  
2000 x 1000  
3000 x 1500

**CUT TO SIZE**

**CUSTOM PARTS**

## Applications

- Chemical storage tanks
- Welded products
- Water treatment containers

## Properties

Density <small>DIN 53479, Units g/cm<sup>3</sup></small>	.95
Crystalline Melting Range <small>Units °C</small>	135
Tensile Strength at Yield <small>DIN 53455, Units N/mm<sup>2</sup></small>	22
Tensile Strength at Break <small>DIN 53455, Units N/mm<sup>2</sup></small>	32
Elongation at Break <small>DIN 53455, %</small>	>800
Ball Indentation Hardness <small>DIN 53456, Units N/mm<sup>2</sup></small>	40
Shore Hardness <small>DIN53505</small>	60D
Notched Impact Strength	-
Abrasion Index <small>Sand – Slurry</small>	600
Coefficient of Linear Thermal Expansion <small>K<sub>-1</sub></small>	2.10 <sub>-4</sub>
Dielectric Strength <small>DIN 53481, Units KV/mm (measured on 1mm thick material)</small>	700
Surface Resistivity <small>DIN 53482, Units Ω (measured on 1mm thick material)</small>	>10 <sup>15</sup>
Volume Resistivity <small>DIN 53481, Units Ω cm (measured on 1mm thick material)</small>	>10 <sup>15</sup>
Minimum/maximum Service Temperature in Air <small>Units °C</small>	-50/+80