

Polyethylene PE
Polystone 7000 UHMWPE

PE Physical Properties

Specific Gravity Units g/cm ³	0.93
Minimum/Maximum Service Temperature in Air Unit °C	-260/90
Tensile Strength Yield Units MPa	>20
Tensile Strength Break Units MPa	>40
Impact Resistance DIN 53505 Notched Impact Strength Units MJ/mm ²	>100
Hardness Units Shore D	61
Co-efficient of Thermal Expansion Units mm/(mmxK) x 10 ⁻⁶	200
Dielectric Strength Units KV/mm	45
Surface Resistivity Units Ohms	>1x10 ¹⁴
Relative Abrasion Loss by Sand Slurry Compared to Polystone 7000=90	90
FDA Approved For a full list of ratings click here	Yes



PE Product Description

Polystone 7000, general purpose UHMWPE, is suited to engineered applications where its unique properties of excellent impact strength, wear and abrasion resistance are required.

Key Features and Benefits:

- Impact Strength - it is virtually unbreakable

- Light weight - easy to handle without special equipment
- Physiologically inert - approved for food applications
- Electrical insulation - it is a good insulator
- Weatherproof - it doesn't absorb water
- Chemical resistance - resists corrosive chemicals (Sulphuric Acid, Caustic Soda)
- Abrasion resistance - rated better than Carbon Steel for sliding abrasion applications
- Low coefficient of friction - it does not require lubrication

PE Plastics Applications

- Chute and hopper linings (flow promotion)
- Bulk Storage
- Material Handling
- Mechanical Bearing Parts
- Wear Parts
- Food Machinery Equipment

PE Delivery Program



PE Sheet

Thickness: 3 - 160 mm

Sizes: 2000 x 1000 3000 x 1000

3000 x 2000 6000 x 1000