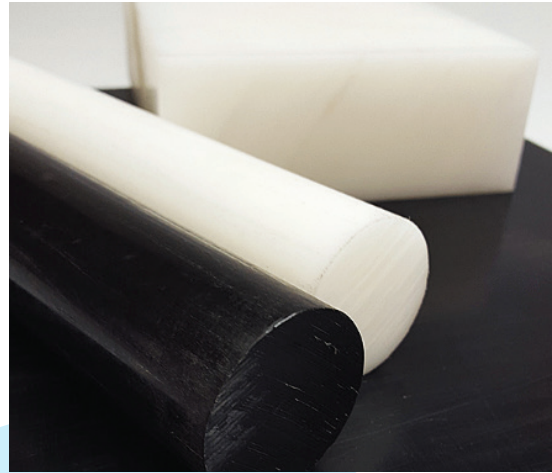


Polystone 7000 UHMWPE

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

Key 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
- 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



Applications

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

Physical Properties

Technical Data	Unit	Value
Specific Gravity:	g/cm ³	0.93
Minimum/Maximum Service Temperature in Air:	°C	-250 to +80
Tensile Strength:	Mpa	>20
Impact Resistance Charpy Unnotched:	KJ/m ²	No Break
Compressive Strength at 2% Deformation:	Mpa	2.75
Compressive Strength 10% Deformation:	Mpa	8.27
Deformation Under Load:	%	6-8
Compressive Modulus of Elasticity, 22C:	Mpa	479
Hardness: Durometer (Shore "D" scale):		69
Hardness:	Rockwell	M 61
Coefficient of Friction (Dry vs Steel): Static		.17
Coefficient of Friction (Dry vs Steel): Dynamic		.14
Co-efficient of thermal expansion:	m/(m.k) x 10 ⁻⁶	200
Dielectric Strength:	KV/mm	40
Surface Resistivity:	Ohms	>1x10 ¹⁴
Water Absorption, Immersion Saturation:	%	Nil
Machinability Rating:	1 = easy, 10 = difficult	5
Flammability UL94:		HB
Food Grade:	FDA	Yes
Impact Resistance Charpy Notched:	KJ/m ²	>100

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Dotmar EPP PTY assumes no liability for use of information presented herein.