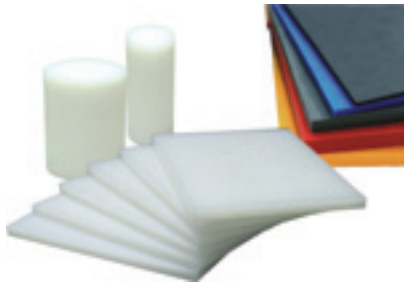


Engineering Plastic Products

UHMWPE Sheet/Rod



FEATURES

- Low friction coefficient, high wear resistance.
- Excellent chemical stability, corrosion resistance.
- Non-toxic, in accordance with FDA and USDA standards.
- High impact resistant.
- Good self-cleaning properties.
- Low water absorption.

APPLICATIONS

Flow promotion liners, wear strips, vent and filter plates, trough liners, guide rails and rollers hopper liners, conveyor components subject to high wear and requiring low friction, componentry in direct contact with food stuffs.

SPECIFICATIONS

Sheet			
Length (mm)	Width (mm)	Thickness (mm)	Color
3080	1220	6.5-200	White
4260	1090		
2120	1090		

Rod		
O.D. (mm)	Length (mm)	Color
20-150	1000	White

Note: Other color is available on request.

Modified sheets or special grades such as Reinforced, Anti-static, UV Proof, Flame Resistant, Super Hardness, etc., are available on request. Cutting and machining service is provided.



PROPERTIES

Item	ASTM Test Method	Value
Physical		
Relative Molecular Weight (ten thousand)	D2857	450 / 920
Water Absorption (%)	D570	< 0.01
Density (g/cm ³)	D1505	0.935
Mechanical		
Tensile Break (MPa)	D638	40-45
Elongation at Break (%)	D638	250
Flexural Strength (MPa)	D747	600
Flexural Modulus (MPa)	D790	760
Izod Impact (KJ/m ²)	D250	≥140
Hardness (Shore D)	D2240	68
Compressive Modulus (MPa)	D790	550
Thermal		
Thermal Deformation (°C)	D648	85
Linear Expansion Coefficient (10 ⁻⁵ cm/cm°C)	D696	1.5-2.5
Melting Point (°C)	D2117	136
Maximum Operating Temp. (°C)		85
Electrical		
Thermal Conductivity W/(m.k)	D177	8.5
Volume Resistivity (Ω·cm)	D257	10 ¹⁷
Breakdown Voltage (KV/mm)	D149	50
Dielectric Constant	D150	2.3