

**PAR (MANCHESTER) LTD**

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UHMW Polyethelene 1000 Grade

UHMW Polyethelene 1000 Grade is a semi-crystalline, thermoplastic engineering material with high toughness, good wear/abrasion resistance, and very good low temperature properties

Its main characteristics are:

- It is tough
- Very low water absorption
- Good sliding properties
- Resistant to dilute acids, cleaning agents, numerous solvents
- Very good electrical insulation
- Difficult to bond
- Low density
- Very good abrasion resistance

The preferred fields for the use of UHMW Polyethelene 1000 Grade are; mechanical engineering, transport and conveyor technology, electrical engineering, general engineering, household appliances, plant construction, and the food industry

Popular applications for the use of this product are:

- Chemical apparatus
- Chopping boards
- Wear strips
- Conveyor parts
- Liners
- Cryogenic parts
- Food processing



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Technical Data

Property	Method	SI Unit	SI Value	English Unit	English Value
Density	ASTM D-792	kg/m ³	960	lbs/ft ³	59.88
Yield Point	ASTM D-638	MPa	29.5	psi	4279
Elongation at Yield	ASTM D-638	%	18	%	18
Tensile Break	ASTM D-638	MPa	30.5	psi	4423
Elongation at Break	ASTM D-638	%	1350	%	1350
Tensile Modulus	ASTM D-638	MPa	1550	psi	224812
Flexural Modulus	ASTM D-790	MPa	1150	psi	166796
Izod Impact	ASTM D-4020	J/m	67	ft-lbs/inch	1.3
Tensile Impact	DIN 53448	kJ/m ²	570	ft-lbs/in ²	570
Hardness	ASTM D-2240	Type D	67	Type D	67
Melt Point	ASTM D-3417	OC	126-129	OF	259-267
Compressive Modulus	ASTM D-621	Mpa	na	Psi	na
Compressive Deformation	ASTM D-621	% at 454.5 kg	na	% at 1000 psi	na
Volume Resistivity	ASTM D-257	Ohm-cm	>1015	Ohm-cm	>1015
Surface Resistivity	ASTM D-257	Ohm	>1015	Ohm	>1015
Water Absorption	ASTM D-570	%	slight	%	slight

* Values are averages and are not specifications

** ASTM test methods are under current procedures