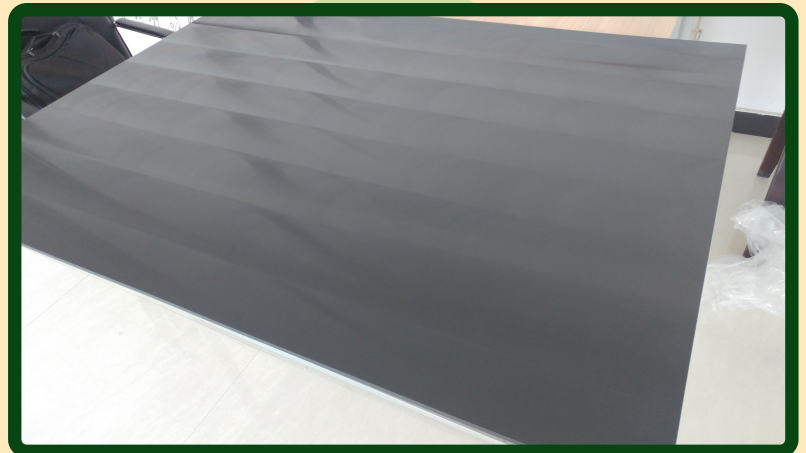


ADVANCED POLYMER LINING SOLUTIONS FOR MINING AND BULK MATERIAL HANDLING



FLOW PROMOTION SPECIALISTS



Phone

+61 7 4955 4644

Enquiries

+61 409 414 147

Address

17 David Muir St
Slade Point QLD 4740
AUSTRALIA

Email

sales@advancedpolymersolutions.com.au



FLOW PROMOTION SPECIALISTS

**Superior products made from UHMWPE material and utilising the most
ADVANCED POLYMER MANUFACTURING TECHNOLOGY**



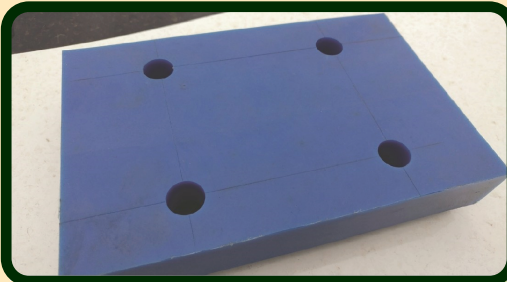
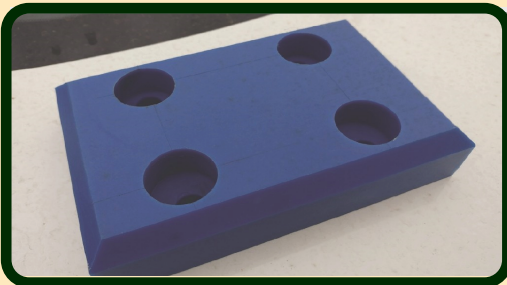
***For applications of
LIMITED WEAR,
but requiring the
superb properties of
UHMWPE for anti-scaling,
anti-static, or chemical
resistance.***



***For applications of
HIGH ABRASIVE WEAR.
Also with the benefits
provided by EnergyPro.***



***For applications of
HIGHEST ABRASIVE WEAR.
This grade is proven and
tested to outperform any
other PE brand on the market
on abrasion and impact.
Also, with all of the
benefits of EnergyPro.***



Any brand, available in any colour.

Stock sizes: 3000 x 2000mm (12, 15, 20, 25mm)
2000 x 1000mm (50, 100mm)

Products can be machined and manufactured to order, with the following sheet moulds available:

6050 X 1830, 6000 X 1220, 5040 X 1340, 4960 X 1460, 4730 X 1240,
4550 X 2000, 4400 X 2050, 4400 x 2000, 4000 X 1100, 4000 x 1000,
3050 X 3050, 3050 X 1230, 3050 X 1220, 3050 X 1550, 2800 X 1300,
2440 X 1220, 2000 X 1000, 1000 X 1000.

Thickness up to 350 mm

FLOW PROMOTION APPLICATIONS

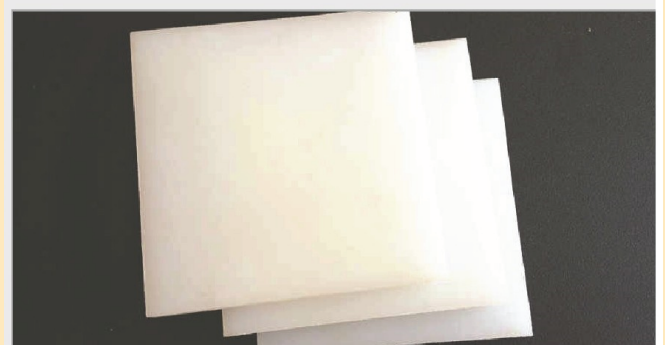
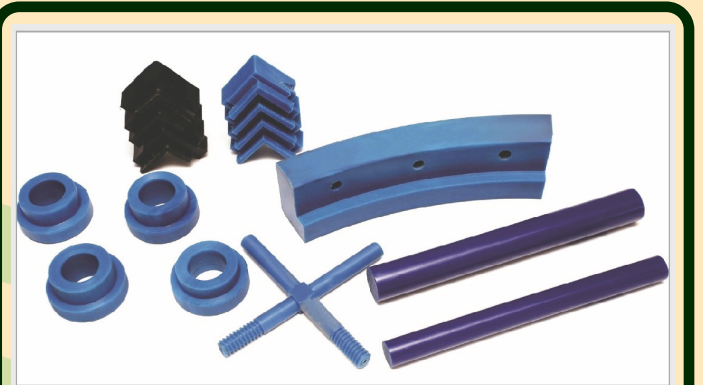
- Chute and hopper linings
- Bulk storage
- Material handling
- Tank overflows
- Mining Truck bodies

ABRASIVE OR IMPACT APPLICATIONS

- Fender pads
- Mechanical bearing parts
- pontoons
- Chutes and Hopper linings
- Wear pads
- Chain guides
- Conveyor rollers
- Manhole covers

FOOD MACHINERY EQUIPMENT

- Conveyor tubing
- Internal housing
- Cold storage





Property	Raw Material Value (s) Only			
PHYSICAL PROPERTIES				
Raw Material		EnergyPro	WearPro	WearPro+
Density (g/cm ³)		≥0.93	≥0.93	≥0.93
Molecular weight (10 ⁶ g/mol)		2.1-3.0	3.1-4.0	4.4-5.0
Water Absorption, 24hrs(%)		<0.01	<0.01	<0.01
MECHANICAL PROPERTIES				
Tensile strength at Break Mpa		≥29	≥29	≥24
Elongation at Break (%)		≥300	≥300	≥280
Impact strength (KJ/M2)		≥80	≥70	≥70
Wear Loss (Factory test)		<30%	<28%	<23%
Coefficient of Friction (unplaned)		0.12	0.12	0.12
Shore Hardness (R)		61-68	61-68	61-68
THERMAL PROPERTIES				
Coefficient of Linear Expansion (10 ⁴ /°C)		1.5	1.5	1.5
Heat Deflection Temp at 0.45 Mpa (°C)		≥50	≥50	≥50
ELECTRICAL PROPERTIES				
Surface Resistivity (Ohm)		□ 10 ⁹ Ω	□ 10 ⁹ Ω	□ 10 ⁹ Ω
CHEMICAL PROPERTIES				
Hydrochloric Acid	No abnormality in the sample surface immersed in 20°C-80°C of hydrochloric acid			
Phosphoric Acid	No abnormality in the sample surface immersed in 20°C-80°C of phosphoric acid			
93# Gasoline	No abnormality in the sample surface immersed in 20°C-80°C of 93# gasoline			
Acetic acid	No abnormality in the sample surface immersed in 20°C-80°C of glacial acetic acid			
Sodium hydroxide	No abnormality in the sample surface immersed in 20°C-80°C of sodium hydroxide			
502 Super Glue	No bonding between samples surfaces			

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