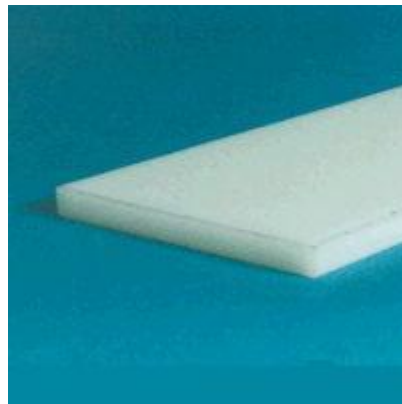
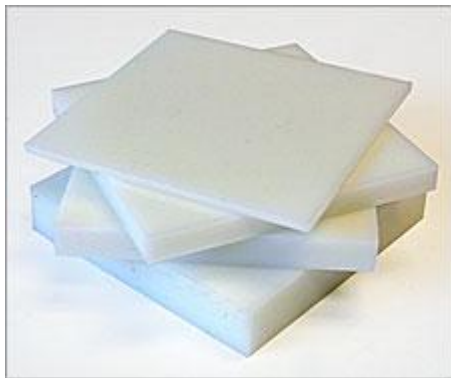
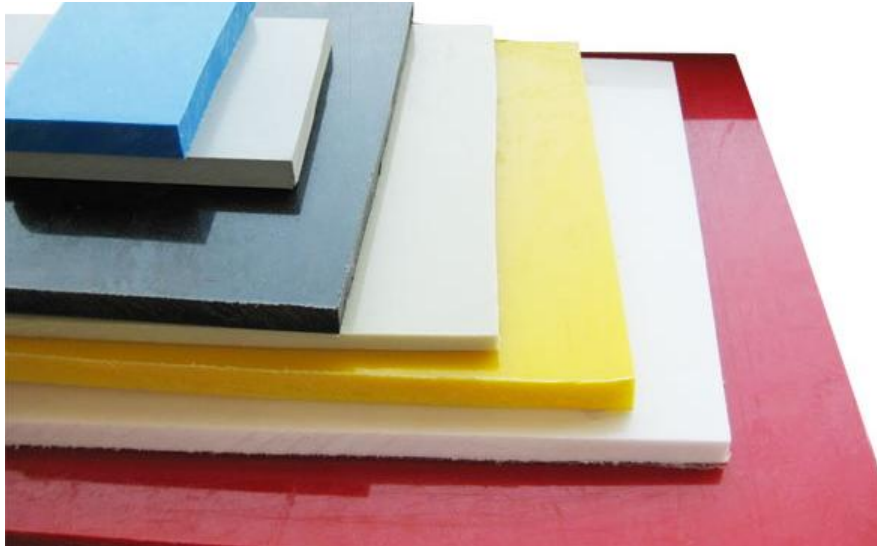


High Definition Polyethylene (HDPE):

Our HDPE sheet thickness ranges from 0.4 mm to 25 mm. With a non-toxic, smooth surface, these sheets have corrosion resistance, electrical insulation performance, and good low temperature performance. Widely used in chemical, power and other industries. HDPE plates can be used as engineering plastics used in mechanical, chemical and other devices and are widely used in the manufacture of hockey arena dasher boards.



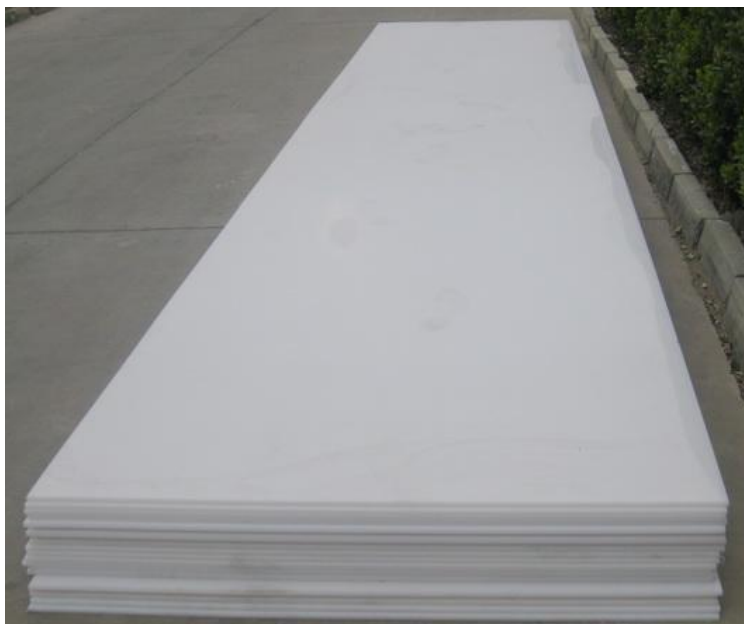
Test Report		Unit	Quantity
Density		g/cm ³	0.97
Tensile strength	Vertical	MPa	≥24.1
	Horizontal	MPa	≥23.8
Impact strength		KJ/m ²	≥18.8
Heat distortion temperature		°C	≥70

High Molecular Weight Polyethylene (HMW-PE):

HMW-PE is a thermoplastic engineering plastic. It combines all the advantages of plastics: impact resistance; abrasion resistance; no chemical corrosion; self-lubricating, anti-cold properties. HMW-PE is the highest existing value of all plastic varieties. As the plastic processing technology expands, HMW-PE will have increasingly wide applications.

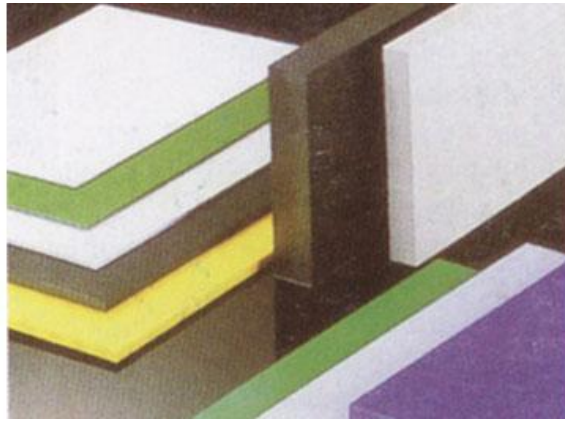


The impact strength of HMW-PE is about two times the impact resistance **PC, ABS 5 times, POM and PBTP of 10 times**. It is worth noting that in liquid nitrogen (-195 °C) HMW-PE can maintain excellent impact strength which is a feature not available in other plastics. In addition, the surface hardness becomes higher in repeated shocks.



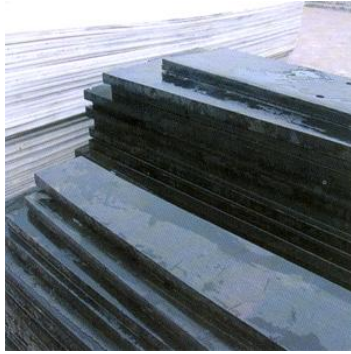
Material	HMW-PE	Poly vinyl chloride	Nylon 6	A, Steel	PVC	Copper
Wear rate%	0.32	1.72	3.30	7.36	8.63	13.12

Material	HMW-PE	Cast stone	PAE6	POM	F4	A3	45
Impact strength	100-160	1.6-15	6-11	8-13	16	300-400	700



Key Features:

1. High wear resistance
2. Self-lubricating properties, friction coefficient
3. High impact strength, toughness
4. Anti-chemical cultural centres of excellence, can be resistant (except for concentrated sulfuric acid, nitric acid, organic solvents other than a few) almost all of the acid, alkali, salt medium
5. Non-toxic, tasteless, non-exudation
6. Good electrical properties. Very low water absorption
7. Excellent resistance to environmental stress. Cracking resistance is 200 times the normal ethylene
8. Excellent low temperature performance, even when not at -176°C embitterment.



Project		Test Method	Unit	HMW-PE	ADS	PA66	PC	POM	PHV
Physical properties	Density	D1505	g/cm ³	0.935	1.02-1.04	1.13-1.15	1.2	1.04	2.14-2.20
Mechanical properties	Breaking strength	D638	N/cm ³	2900	2450-4214	6074-8232	5488-6566	6860	1372-3430
	Elongation	D638	%	350	5-60	60-300	100-130	75	200-400
	Impact strength	D256	CJ.cm/cm ³	ok	160-440	60-110	710-950	80-130	160
	Hardness (Rockwell)	D747		40	85-109	85-120	118	120	
Thermal properties	Melting point	D2117	°C	136		225	240	166	
	Vicat softening point	D1525	°C	134					
	Heat distortion temperature	D648	°C	85	96-108	182-244	132-144	170	121
	Coefficient of expansion	D696	10-4/°C	1.5	0.95-1.3	0.8	0.66	0.81	1.0
Electrical Properties	Volume resistance	D257	SL-CM						
	Breakdown Voltage	D149	KV/mm	50	14-20	15-19	16	15	20
	K	D150		2.3	2.4-3.8	3.4-3.6	2.96	3.7	2.1
Other	Water absorption	D570	%	<0.01	0.2-0.45	1.5	0.15	0.25	<0.01
	Scaling			No scaling	Easy Scaling	Scaling	Easy Scaling	Easy Scaling	No scaling