NDUSTRY WATCH Petrochemicals

Tuesday, February 11, 2014



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Petrochemical price monitor

- **Ethylene price at 20-week low.** Ethylene price slid 0.7% WoW to touch a 20-week low in the first week after Chinese New Year as business slowly got back to normal. Derivative product prices were stable, with the slower market bringing fewer transactions. Product spreads improved on lower feedstock costs. Weak economic data in China and lower feedstock costs are likely to hit PE price in coming weeks, as it was in a high range through January. The medium-term outlook for PE remains favorable on a good balance in demand and supply. Note that China's HPDE and LDPE imports grew strongly in 2013, with volumes up 18% and 10% YoY, respectively, according to US-based International Trader Publications.
- PX price continued to slide despite delays in new plants. PX price fell 1.5% WoW to US\$1,313/t amidst news that new capacity startups are being put off to 2H14 from 1Q14. PX-naphtha spread fell 2.4% WoW to US\$477/t. Benzene price and spread also fell 0.9% and 0.8% WoW on weaker price for downstream styrene monomer in western markets. This is not good news for aromatics producers, where integrated spread is supported by BZ.
- Lower feedstock lifted PET/PTA margin. Integrated PET/PTA spread widened 7.1% WoW to a 15-week high of US\$292/t on lower feedstock prices, both MEG (-1.8% WoW) and PX (-1.5% WoW); PET and PTA prices remained stable.

Investment view: The petrochemical sector (-0.8% WoW) underperformed the SET (-0.2% WoW), on the fall in PTTGC share price (-1.7% WoW) on concerns about 4Q13F earnings and risk from an economic slowdown in China. PTTGC will release earnings early next week and this would be a good entry point for the stock on expectation of strong growth in 2014F. We expect PTTGC's 4Q13F to outperform local peers as HDPE price was favorable and operating rate improved QoQ.

Figure 1: Petrochemical price update

	Current	52-week	-1W	-1M	-3M	-6M	-12M	1014	4Q13	QoQ%	YTD	Chg.	%YoY	
	7-Feb-14	High/Low						QTD						projection
Price														
Naphtha Singapore Spot FOB	835	962/744	-1.0%	-4.4%	1.6%	3.7%	-11.2%	853	855	-0.3%	853	-31	-3.5%	
Ethylene, Far East CFR SE Asia \$/MT	1,410	1,520/1,215	-0.7%	-3.8%	-1.1%	9.3%	1.1%	1,437	1,427	0.7%	1,437	70	5.1%	
Propylene (C), Spot CFR F/E U\$/MT	1,473	1,503/1,280	-0.3%	-2.0%	-0.5%	3.5%	5.2%	1,488	1,472	1.1%	1,488	153	11.4%	
Polye HDPE Inj, South East Asia U\$/MT	1,570	1,570/1,425	0.0%	2.3%	2.3%	7.2%	5.0%	1,555	1,530	1.7%	1,555	104	7.2%	
Polye LDPE-Film, Spot S.E Asia U\$/MT	1,670	1,680/1,420	0.0%	-0.6%	0.0%	7.1%	12.5%	1,673	1,664	0.5%	1,673	252	17.7%	1,490
Polye LLDPE Film, F/E Spot SE Asia \$/MT	1,585	1,585/1,410	0.0%	1.0%	2.1%	6.4%	6.4%	1,578	1,546	2.1%	1,578	119	8.1%	1,480
PP Film, Spot South East Asia U\$/MT	1,570	1,580/1,440	0.0%	0.6%	2.3%	4.7%	0.6%	1,566	1,539	1.7%	1,566	43	2.8%	1,490
Related stocks				PTTGC	C (Neutra	I) IRPC	; (+) S	CC (+)	TPIPL (+)				
Para-Xylene CFR Chin M. Por Spot \$/MT	1,313	1,721/1,313	-1.5%	-4.7%	-8.4%	-12.1%	-23.2%	1,353	1,432	-5.6%	1,353	-338	-20.0%	1,390
Benzene, Far East CFR Spot F/E U\$/MT	1,340	1,428/1,218	-0.9%	-0.4%	8.1%	7.2%	-7.1%	1,352	1,298	4.1%	1,352	-85	-5.9%	1,220
Related stocks					PTTG	GC (-) T	OP (-)	ESSO (-)						
MEG, Far East Spot CFR F/E U\$/MT	990	1,189/944	-1.8%	-1.1%	-4.5%	-10.6%	-16.7%	1,006	1,043	-3.5%	1,006	-178	-15.0%	1,040
PTA CFR South East Asia	960	1,200/960	0.0%	-1.5%	-4.0%	-14.7%	-20.0%	971	1,009	-3.8%	971	-218	-18.3%	1,050
PET(Fibre Grade)A/P Spot CFR NEA \$/MT	1,280	1,540/1,280	0.0%	-2.5%	-3.8%	-8.2%	-16.9%	1,292	1,330	-2.9%	1,292	-240	-15.6%	
Related stocks						PTTGC (-) IVL	(+)						
ABS Asia Pac. India Spot CFR U\$/MT	1,885	2,060/1,870	0.0%	-0.5%	-1.0%	-3.3%	-7.6%	1,888	1,904	-0.8%	1,888	-148	-7.3%	n.a.
Polystyrene-GP, Spot Hong Kong U\$/MT	1,805	1,915/1,765	0.0%	-0.6%	1.4%	-5.7%	-5.2%	1,806	1,817	-0.6%	1,806	-72	-3.8%	n.a.
Related stocks						IRPC	(Neutral)						
PVC, Spot South East Asia U\$/MT	1,035	1,083/950	0.0%	0.0%	5.6%	2.5%	-1.9%	1,031	1,003	2.8%	1,031	-7	-0.6%	1,030
Related stocks						VNT (+) TPC ((-)						
Product spread						-								
Ethylene - naphtha	575	650/424	-0.3%	-2.9%	-4.6%	18.6%	26.4%	585	572	2.1%	585	100	20.8%	498
Propylene - naphtha	637	665/438	0.5%	1.3%	-3.1%	3.3%	38.6%	635	617	3.0%	635	183	40.6%	548
HDPE - naphtha	735	735/533	1.1%	11.1%	3.1%	11.4%	32.5%	702	675	4.1%	702	135	23.8%	618
LDPE - naphtha	835	851/523	1.0%	3.5%	-1.5%	10.6%	53.3%	821	809	1.4%	821	283	52.5%	668
LDPE - Ethylene	260	323/25	4.0%	20.9%	6.1%	-3.7%	188.9%	236	237	-0.3%	236	182	336.2%	170
LLDPE - naphtha	750	750/528	1.1%	7.6%	2.7%	9.5%	36.4%	725	691	4.9%	725	150	26.0%	658
PP - naphtha	735	738/598	1.1%	7.0%	3.1%	5.8%	18.6%	713	684	4.2%	713	74	11.6%	668
PX - naphtha	477	803/475	-2.4%	-5.3%	-21.8%	-30.6%	-37.9%	500	577	-13.4%	500	-307	-38.1%	568
BZ - naphtha	505	594/396	-0.8%	7.0%	20.8%	13.5%	0.5%	499	443	12.7%	499	-55	-9.8%	
MEG - Ethylene	116	324/93	-9.2%	24.2%	-24.3%	-62.4%	-64.2%	115	158	-26.9%	115	-221	-65.7%	
PTA - PX	107	155/62	13.8%	34.2%	55.2%	-31.0%	19.4%	92	78	17.8%	92	2	2.7%	
PET spread	185	273/128	3.5%	-8.3%	-1.3%	42.2%	-1.8%	183	179	2.3%	183	-8	-4.0%	
Integrated PET/PTA spread	292	391/211	7.1%	3.7%	13.9%	2.4%	5.1%	274	256	7.0%	274	-5	-1.9%	
ABS spread	1,070	1,272/1,040	-0.7%	-2.2%	-10.8%	-15.9%	-8.1%	1,086	1,169	-7.1%	1,086	-84	-7.2%	
PS spread	338	565/303	3.9%	3.0%	-12.8%	-39.0%	-6.5%	321	378	-14.9%	321	-24	-7.0%	
PVC - ethylene	330	398/258	1.5%	9.1%	23.4%	-9.6%	-7.7%	312	289	8.0%	312	-41	-11.7%	
Source: Datastream, SCBS Investment Resea		378/238	1.5%	9.1%	23.4%	-9.0%	-1.1%	312	289	ð.U%	312	-41	-11.7%	

Source: Datastream, SCBS Investment Research Note: Impact to related stocks is based on WoW performance

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Petrochemicals

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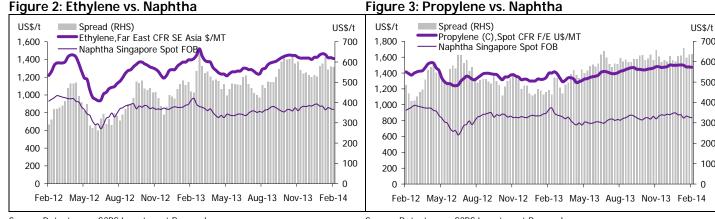
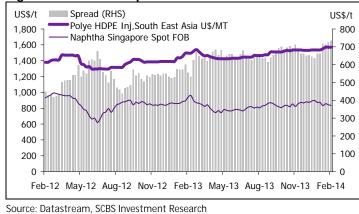


Figure 2: Ethylene vs. Naphtha

Source: Datastream, SCBS Investment Research





Source: Datastream, SCBS Investment Research

Figure 5: LDPE vs. Naphtha

Figure 7: PP vs. Naphtha

Spread (RHS)

PP Film, Spot South East Asia U\$/MT

Naphtha Singapore Spot FO

US\$/t

1.800

1,600

1,400

1,200

1.000

800

600

400

200

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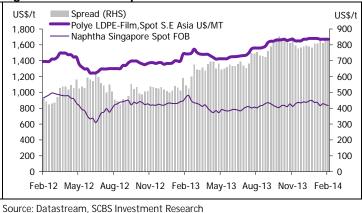
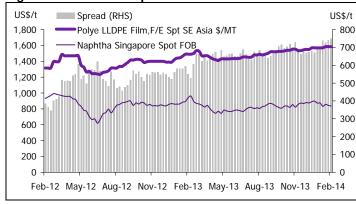
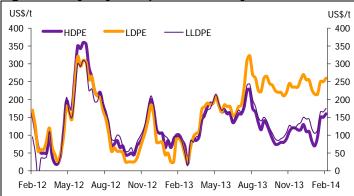


Figure 6: LLDPE vs. Naphtha

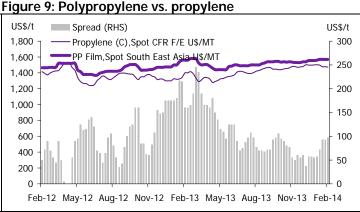


Source: Datastream, SCBS Investment Research

Figure 8: Polyethylene spread over ethylene



Source: Datastream, SCBS Investment Research



Feb-12 May-12 Aug-12 Nov-12 Feb-13 May-13 Aug-13 Nov-13 Feb-14

Source: Datastream, SCBS Investment Research



Source: Datastream, SCBS Investment Research

Petrochemicals

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US\$/t

700

600

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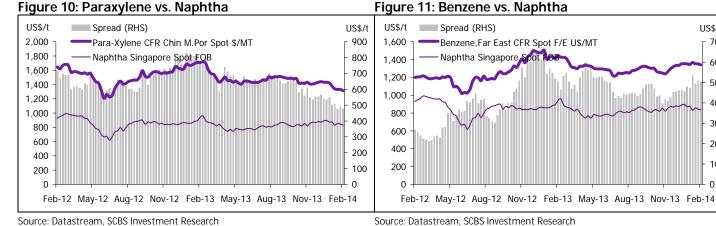
400

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Source: Datastream, SCBS Investment Research

Figure 12: PTA vs. Paraxylene

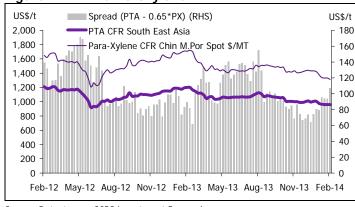
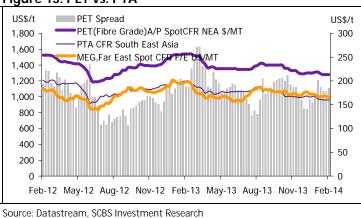


Figure 13: PET vs. PTA



Source: Datastream, SCBS Investment Research

Figure 14: ABS margin

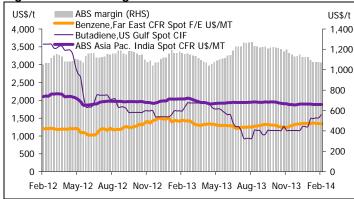
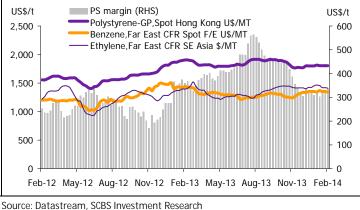


Figure 15: Polystyrene margin



Source: Datastream, SCBS Investment Research

Figure 16: PVC vs. ethylene

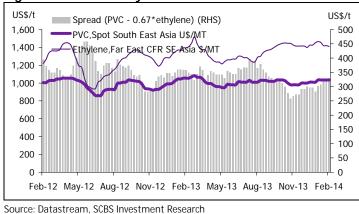
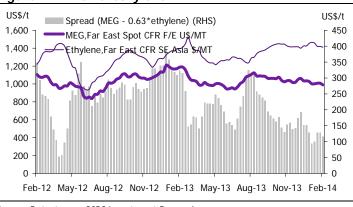


Figure 17: MEG vs. ethylene



Source: Datastream, SCBS Investment Research



Figure 18: Selected product price/spread of listed companies

Company	Key products	% of total	Product price/spread	1014	4Q13	QoQ%	YTD	12MMA	2014F	Momentum
				QTD					projection	
PTTGC	Ethylene/Propylene	21%	Ethylene, Far East CFR SE Asia \$/MT	1,437	1,427	1%	1,437	1,360	1,320	Я
			Propylene (C),Spot CFR F/E U\$/MT	1,488	1,472	1%	1,488	1,415	1,370	Ы
	HDPE	19%	Polye HDPE Inj,South East Asia U\$/MT	1,555	1,530	2%	1,555	1,490	1,440	7
	LLDPE	7%	Polye LLDPE Film, F/E Spt SE Asia \$/MT	1,578	1,546	2%	1,578	1,500	1,480	7
	LDPE	4%	Polye LDPE-Film,Spot S.E Asia U\$/MT	1,673	1,664	1%	1,673	1,564	1,490	→
	MEG	6%	MEG, Far East Spot CFR F/E U\$/MT	1,006	1,043	-3%	1,006	1,033	1,040	Ы
	PX	28%	PX - naphtha	500	577	-13%	500	630	568	Я
	BZ	15%	BZ - naphtha	499	443	13%	499	479	398	Я
IRPC	Ethylene/Propylene	15%	Ethylene - naphtha	585	572	2%	585	531	498	Ы
			Propylene - naphtha	635	617	3%	635	586	548	→
	HDPE	12%	HDPE - naphtha	702	675	4%	702	661	618	Я
	PP	28%	PP - naphtha	713	684	4%	713	690	668	7
	ABS	7%	ABS spread	1,086	1,169	-7%	1,086	1,157	n.a.	R
	BTX	23%	BZ - naphtha	499	443	13%	499	479	398	Я
	PS	12%	PS spread	321	378	-15%	321	409	n.a.	→
SCC	HDPE	40%	HDPE - naphtha	702	675	4%	702	661	618	Я
	LDPE	3%	LDPE - naphtha	821	809	1%	821	734	668	→
	LLDPE	3%	LLDPE - naphtha	725	691	5%	725	671	658	7
	PP	25%	PP - naphtha	713	684	4%	713	690	668	7
	PVC	28%	PVC - Ethylene/EDC	462	521	-11%	462	474	n.a.	R
TPIPL	LDPE	60%	LDPE - Ethylene	236	237	0%	236	203	170	7
TOP	РХ	60%	PX - naphtha	500	577	-13%	500	630	568	Я
	BZ	21%	BZ - naphtha	499	443	13%	499	479	398	7
IVL	PTA	25%	PTA - PX	92	78	18%	92	103	119	7
	PET/Polyester	67%	PET spread	183	179	2%	183	187	n.a.	Я
	MEG	8%								
VNT	PVC	63%	PVC - ethylene	312	289	8%	312	332	370	Я
TPC	PVC	100%	PVC - Ethylene/EDC	462	521	-11%	462	474	n.a.	N

Source: Datastream, SCBS Investment Research

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