INDUSTRY WATCH Petrochemicals

Tuesday, July 29, 2014



Chaipat Thanawattano

Securities Fundamental Investment Analyst (66-2) 949-1005 chaipat.thanawattano@scb.co.th

Petrochemical price monitor

- Limited supply boosts olefins price, spread. Ethylene and PE prices rose for the first time in 4-5 weeks on tighter regional supply. Product spread rose 2-3% WoW on steady naphtha price. Margin for PE and ethylene will stay low, discouraging non-integrated producers who are running at low rates to minimize losses. PE/PP spread over ethylene/propylene fell 2-10% WoW, except for HDPE, where price was boosted by limited supply and steady demand growth. New plant startups are delayed and less competitive naphtha crackers in Asia are being permanently shuttered: CPC Corp is expected to close its No.5 naphtha cracker by end-2014. The plant has an ethylene capacity of 500ktpa and propylene capacity of 250ktpa.
- Slow demand narrows PX spread WoW. PX price fell 4.2% WoW to US\$1,418/t still far above YTD average of US\$1,295/t, due to the startups after maintenance shutdowns but lower PTA operating rates due to poor spread. PX-naphtha spread fell 10.1% WoW to US\$550/t, still above the US\$439/t YTD average. More pressure on PX price and spread will come from new capacity of 1.8mtpa in Singapore and South Korea. SK Innovation in South Korea started a new PX plant early last week with production capacity of 1.3mtpa.
- PET/PTA spread aided by lower PX cost. Weaker PX price widened integrated PET/PTA spread to US\$236/t, up 20.8% WoW, as PTA price edged up 1% WoW. This reflects tighter PTA supply due to plant shutdowns on the poor PTA-PX margin in 2Q14-early 3Q14 to below US\$100/t vs. cash cost of ~US\$150/t. More PTA production cuts can be expected as demand for PET in the region has slowed.

Investment view: The petrochemical sector (+1.9% WoW) outperformed the market (unchanged WoW), led by IVL (+6.4% WoW) on expectation of strong profit in 2Q14 and less concern on warrant issue. Valuation is stretched and we maintain Neutral. We prefer PTTGC with undemanding valuation of 9x for 2015 vs. 18x for regional peers. The expected weak 2Q14 is largely priced in.

Figure 1: Petrochemical price update

	Current	52-week	-1W	-1M	-3M	-6M	-12M	3Q14	2014	Q0Q%	YTD	Chg.	%YoY	2014F
	25-Jul-14	High/Low						QTD						projection
Price														
Naphtha Singapore Spot FOB	868	897/806	0.0%	-2.1%	-0.1%	1.2%	8.1%	872	863	1.0%	856	34	4.1%	842
Ethylene, Far East CFR SE Asia \$/MT	1,475	1,475/1,238	1.2%	3.9%	1.0%	3.9%	19.0%	1,462	1,448	0.9%	1,446	125	9.4%	1,440
Propylene (C), Spot CFR F/E U\$/MT	1,475	1,503/1,373	1.0%	2.4%	3.0%	-0.2%	5.9%	1,460	1,420	2.8%	1,442	90	6.7%	1,430
Polye HDPE Inj, South East Asia U\$/MT	1,615	1,615/1,465	1.3%	1.3%	4.2%	2.9%	10.2%	1,600	1,568	2.0%	1,564	111	7.6%	1,570
Polye LDPE-Film, Spot S.E Asia U\$/MT	1,610	1,680/1,560	0.9%	0.9%	-0.6%	-3.6%	3.9%	1,599	1,605	-0.4%	1,620	162	11.1%	1,640
Polye LLDPE Film, F/E Spot SE Asia \$/MT	1,615	1,615/1,480	0.9%	1.3%	3.2%	1.9%	9.1%	1,603	1,577	1.6%	1,574	118	8.1%	1,580
PP Film, Spot South East Asia U\$/MT	1,610	1,615/1,500	0.0%	1.3%	1.9%	2.5%	7.3%	1,610	1,581	1.8%	1,577	75	5.0%	1,570
Related stocks				PT	TGC (+)	IRPC (+	+) SCC	(+) TP	IPL (-)					
Para-Xylene CFR Chin M. Por Spot \$/MT	1,418	1,515/1,143	-4.2%	-4.7%	17.6%	6.4%	-2.9%	1,431	1,263	13.3%	1,295	-230	-15.1%	1,190
Benzene, Far East CFR Spot F/E U\$/MT	1,348	1,385/1,220	0.6%	-2.7%	6.5%	-0.4%	8.0%	1,346	1,293	4.1%	1,305	-30	-2.2%	1,240
Related stocks	PTTGC (-) TOP (-) ESSO (-)													
MEG, Far East Spot CFR F/E U\$/MT	993	1,124/889	0.5%	-1.4%	8.5%	-1.5%	-7.7%	991	939	5.5%	958	-91	-8.6%	1,110
PTA CFR South East Asia	1,025	1,125/865	1.0%	0.5%	15.8%	6.8%	-6.0%	1,018	920	10.6%	940	-162	-14.7%	900
PET(Fibre Grade)A/P Spot CFR NEA \$/MT	1,280	1,420/1,185	0.0%	-0.4%	7.1%	0.0%	-5.5%	1,284	1,217	5.5%	1,247	-176	-12.4%	n.a.
Related stocks						PTTGC (-) IVL	(+)						
ABS Asia Pac. India Spot CFR U\$/MT	1,915	1,955/1,870	0.0%	0.3%	1.1%	1.6%	-1.3%	1,915	1,901	0.7%	1,896	-72	-3.7%	n.a.
Polystyrene-GP, Spot Hong Kong U\$/MT	1,755	1,915/1,715	0.9%	2.0%	0.3%	-2.8%	-7.9%	1,743	1,733	0.6%	1,754	-84	-4.6%	n.a.
Related stocks						IR	PC (+)							
PVC, Spot South East Asia U\$/MT	1,065	1,070/980	0.0%	0.9%	3.4%	2.9%	5.4%	1,060	1,035	2.4%	1,041	27	2.6%	1,070
Related stocks						VNT (-)) TPC (-)						
Product spread														
Ethylene - naphtha	607	626/424	3.0%	13.8%	2.7%	8.0%	38.9%	590	586	0.8%	590	90	18.1%	598
Propylene - naphtha	607	665/530	2.5%	9.7%	7.7%	-2.0%	3.0%	588	557	5.6%	586	56	10.5%	588
HDPE - naphtha	747	747/615	2.7%	5.4%	9.7%	4.9%	12.9%	728	705	3.3%	708	77	12.2%	728
LDPE - naphtha	742	851/709	2.1%	4.7%	-1.2%	-8.6%	-0.6%	727	742	-2.0%	764	127	20.0%	798
LDPE - Ethylene	135	323/135	-1.8%	-22.9%	-15.6%	-46.0%	-56.5%	137	156	-12.3%	173	37	27.1%	200
LLDPE - naphtha	747	750/640	2.0%	5.4%	7.3%	2.7%	10.4%	731	714	2.3%	718	84	13.2%	738
PP - naphtha	742	744/657	0.0%	5.5%	4.3%	4.2%	6.5%	738	718	2.8%	721	41	6.1%	728
PX - naphtha	550	697/304	-10.1%	-8.5%	63.3%	15.9%	-16.3%	559	400	39.8%	439	-264	-37.5%	348
BZ - naphtha	480	535/381	1.6%	-3.8%	21.0%	-3.1%	7.9%	475	430	10.3%	449	-64	-12.5%	398
MEG - Ethylene	78	324/-20	-7.0%	-38.4%	695.9%	-38.9%	-74.6%	85	41	105.8%	61	-168	-73.3%	217
PTA - PX	103	155/53	94.9%	94.4%	1.8%	10.0%	-26.6%	88	100	-12.1%	98	-13	-11.4%	103
PET spread	133	253/130	-6.7%	-2.8%	-27.8%	-25.4%	3.7%	143	170	-15.7%	179	-18	-9.0%	n.a
Integrated PET/PTA spread	236	352/190	20.8%	24.4%	-17.3%	-13.2%	-12.1%	231	269	-14.4%	277	-30	-9.9%	n.a
ABS spread	1,119	1,272/1,070	0.3%	3.3%	2.7%	3.9%	-11.4%	1,112	1,103	0.8%	1,097	-49	-4.3%	n.a
PS spread	263	565/214	1.5%	22.7%	-19.7%	-19.1%	-53.1%	255	291	-12.4%	303	-97	-24.2%	n.a
PVC - ethylene	328	391/258	-2.6%	-5.1%	9.2%	0.8%	-16.0%	329	311	5.8%	317	-36	-10.1%	350

Note: Impact to related stocks is based on WoW performance

Tel (662) 949-1000 The information in this report has been obtained from sources believed to be reliable. However, its accuracy or completeness is not guaranteed. Any opinions expressed herein reflect Fax: (662) 949-1030 our judgment at this date and are subject to change without notice. This report is for information only. It is not to be construed as an offer, or solicitation of an offer to sell or buy any www.schs.com securities. We accept no liability for any loss arising from the use of this document. We or our associates may have an interest in the companies mentioned therein.

Petrochemicals

Oct-13 Jan-14 Apr-14 Jul-14

US\$/t

700

600

500

400

300

200

100

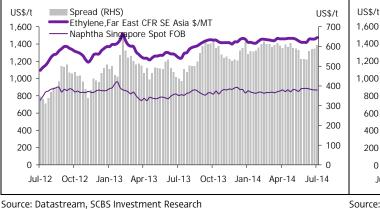
0

Figure 2: Ethylene vs. Naphtha



Spread (RHS) Propylene (C),Spot CFR F/E U\$/MT

Naphtha Singapore Spot FOB



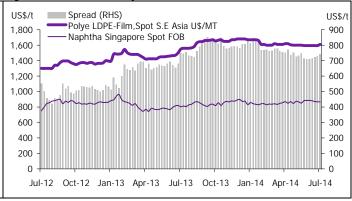
Source: Datastream, SCBS Investment Research

Oct-12 Jan-13 Apr-13 Jul-13



0

Jul-12





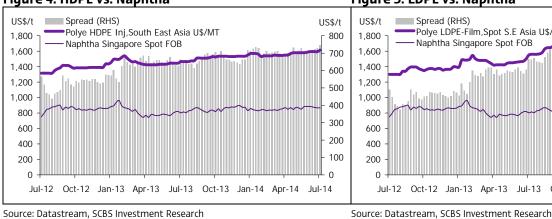


Figure 6: LLDPE vs. Naphtha

Spread (RHS)

US\$/1

1,800

1,600

1,400

1.200

1,000

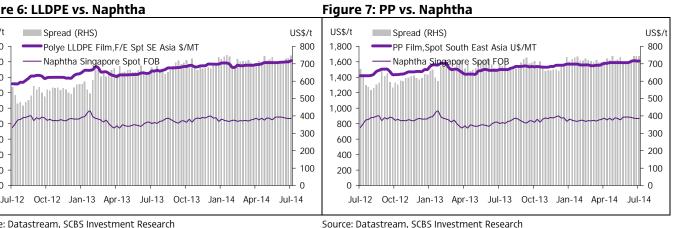
800

600

400

200

0

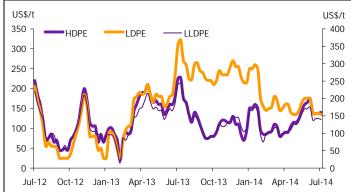


Source: Datastream, SCBS Investment Research

Figure 8: Polyethylene spread over ethylene

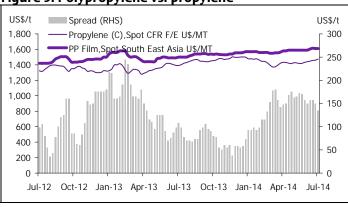
Polye LLDPE Film, F/E Spt SE Asia \$/MT

Naphtha Singapore Spot FOB



Source: Datastream, SCBS Investment Research

Figure 9: Polypropylene vs. propylene



Source: Datastream, SCBS Investment Research



Petrochemicals



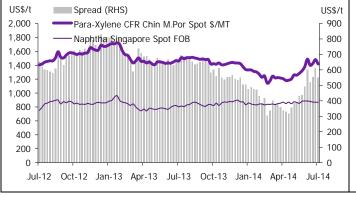
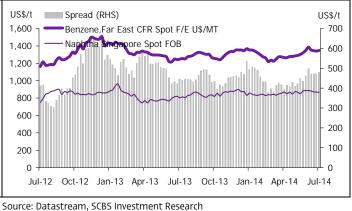


Figure 11: Benzene vs. Naphtha







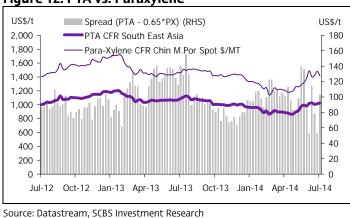


Figure 13: PET vs. PTA

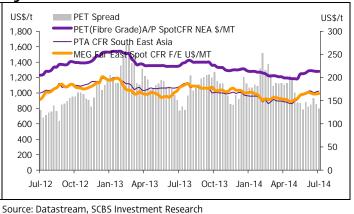


Figure 14: ABS margin



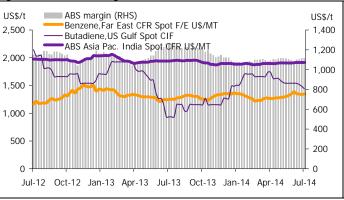
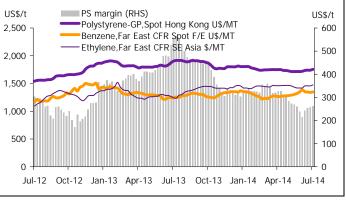
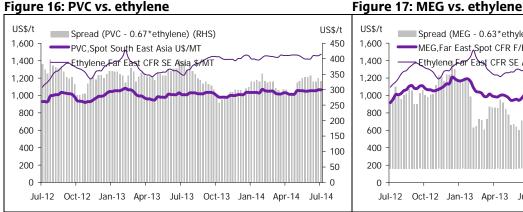


Figure 15: Polystyrene margin

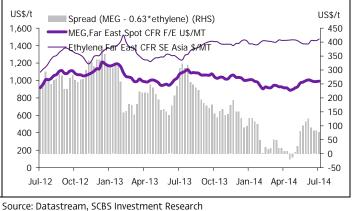


Source: Datastream, SCBS Investment Research

Figure 16: PVC vs. ethylene



Source: Datastream, SCBS Investment Research



Source: Datastream, SCBS Investment Research



Figure 18: Selected product price/spread of listed companies

Company	Key products	% of tota	I Product price/spread	3Q14	2Q14	QoQ%	YTD	12MMA	2014F	Momentum
				QTD					projection	
PTTGC	Ethylene/Propylene	21%	Ethylene,Far East CFR SE Asia \$/MT	1,462	1,448	1%	1,446	1,424	1,440	Я
			Propylene (C),Spot CFR F/E U\$/MT	1,460	1,420	3%	1,442	1,449	1,430	7
	HDPE	19%	Polye HDPE Inj,South East Asia U\$/MT	1,600	1,568	2%	1,564	1,542	1,570	Я
	LLDPE	7%	Polye LLDPE Film, F/E Spt SE Asia \$/MT	1,603	1,577	2%	1,574	1,555	1,580	Я
	LDPE	4%	Polye LDPE-Film, Spot S.E Asia U\$/MT	1,599	1,605	0%	1,620	1,628	1,640	→
	MEG	6%	MEG, Far East Spot CFR F/E U\$/MT	991	939	6%	958	1,002	1,110	→
	PX	28%	PX - naphtha	559	400	40%	439	513	348	→
	BZ	15%	BZ - naphtha	475	430	10%	449	449	398	→
IRPC	Ethylene/Propylene	15%	Ethylene - naphtha	590	586	1%	590	572	598	7
			Propylene - naphtha	588	557	6%	586	597	588	7
	HDPE	12%	HDPE - naphtha	728	705	3%	708	690	728	7
	PP	28%	PP - naphtha	738	718	3%	721	706	728	7
	ABS	7%	ABS spread	1,112	1,103	1%	1,097	1,139	n.a.	7
	BTX	23%	BZ - naphtha	475	430	10%	449	449	398	→
	PS	12%	PS spread	255	291	-12%	303	356	n.a.	→
SCC	HDPE	40%	HDPE - naphtha	728	705	3%	708	690	728	7
	LDPE	3%	LDPE - naphtha	727	742	-2%	764	775	798	→
	LLDPE	3%	LLDPE - naphtha	731	714	2%	718	702	738	7
	PP	25%	PP - naphtha	738	718	3%	721	706	728	7
	PVC	28%	PVC - Ethylene/EDC	442	405	9%	416	420	n.a.	7
TPIPL	LDPE	60%	LDPE - Ethylene	137	156	-12%	173	204	200	Я
TOP	РХ	60%	PX - naphtha	559	400	40%	439	513	348	→
	BZ	21%	BZ - naphtha	475	430	10%	449	449	398	→
IVL	PTA	25%	PTA - PX	88	100	-12%	98	95	103	7
	PET/Polyester	67%	PET spread	143	170	-16%	179	178	n.a.	Ы
	MEG	8%	·							
VNT	PVC	63%	PVC - ethylene	329	311	6%	317	316	350	7
TPC	PVC	100%	PVC - Ethylene/EDC	442	405	9%	416	420	n.a.	7

Source: Datastream, SCBS Investment Research

Disclaimer:

SCB SECURITIES COMPANY LIMITED ("SCBS") ACTS AS MARKET MAKER AND ISSUER OF DERIVATIVE WARRANTS on the ordinary shares of ADVANC, AOT, BANPU, BAY, BBL, BGH, BJC, BLA, BTS, CENTEL, CK, CPN, DELTA, DTAC, GLOBAL, HMPRO, INTUCH, ITD, IVL, JAS, KBANK, KKP, KTB, LH, MINT, PS, PTT, PTTEP, PTTGC, QH, SAMART, SCC, STEC, STPI, TCAP, THAI, THCOM, TICON, TMB, TOP, TPIPL, TRUE, TTA, VGI.

Before making an investment decision over a derivative warrant, an investor should carefully read the prospectus for the details of the said derivative warrants. Any opinion, news, research, analyse, price, statement, forecast, projection and/or other information contained in this document (the "Information") is provided as general purpose information only, and shall not be construed as a recommendation to any person of an offer to buy or sell, or the solicitation of an offer to buy or sell, any securities. SCBS and/or its directors, officers, employees, and agents shall not be liable for any direct, indirect, incidental, special or consequential loss or damage, resulting from the use of, or reliance on, the Information, including without limitation, damages for loss of profits. The investor should use the Information in association with other information and opinion, including his/her own judgment in making investment decision. The Information is obtained from sources believed to be reliable, and SCBS cannot guarantee the accuracy, completeness and/or correctness of the Information.

SCBS reserves the right to modify the Information from time to time at its sole discretion without giving any notice. This document is delivered to intended recipient(s) only and is not permitted to reproduce, retransmit, disseminate, sell, distribute, republish, circulate or commercially exploit the Information in any manner without the prior written consent of SCBS.

