Petrochemicals

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Petrochemical price monitor

- **Ethylene price sets new record.** Ethylene price continued to climb WoW (+0.3%) to US\$1,490/t, supported by constrained product availability in the region. This was as we anticipated, as Reliance plans to shut its 800ktpa cracker in late Sep 2014 for one month. We believe this will lead non-integrated downstream producers to build up ethylene stock for the next month. Higher ethylene price continued to slash margin of ethylene derivatives by 4-15% WoW, especially for MEG, which was also hurt by lower demand in the region. PE-naphtha spread improved 0.5% WoW due to lower naphtha price as oil price simmered, except for LDPE, whose spread dipped 0.1% WoW because of subdued demand.
- Weakening PX trend continues. PX price fell for its fourth consecutive week, losing 1% WoW to a 13-week low of US\$1,287/t, hit by abundant supply while PTA operators continued to cut operating rates and thus demand for PX. According to ICIS, regional PTA operating rate was at only 52-53%, down from ~60% in June.
- Lower PET price depressed integrated PET/PTA spread. Weak sentiment for PET continued to depress the price of bottle grade PET (-1.1% WoW) in the regional market. Behind this was muted demand and lower feedstock cost (PX and MEG). This caused integrated PET/PTA spread to fall 1.1% WoW, though remaining above the comfort zone of US\$300/t. Coupled with lower demand for polyester, PET/PTA spread will continue to narrow in weeks ahead. Average spread QTD in 3Q14 is down 3.8% to US\$259/t.

Investment view: The petrochemical sector index (+2% WoW) slightly outperformed the market (+1.2% WoW) driven by IVL (+2.8%) as its warrants were listed on the market. PTTGC share price also rose 2% WoW despite continuing concerns price of LPG feedstock will be affected by the energy price reform. Again, we believe the market is too pessimistic about the impact on PTTGC's profitability. Hence, the damage done by a higher LPG price to PTTGC's earnings is largely priced in, in our view.

	Current	52-week	-1W	-1M	-3M	-6M	-12M	3Q14	2Q14	Q0Q%	YTD	Chg.	%YoY	2014F
	5-Sep-14	High/Low						QTD						projection
Price														
Naphtha Singapore Spot FOB	802	897/796	-0.5%	-2.9%	-5.9%	-3.3%	-7.8%	836	863	-3.1%	849	25	3.0%	842
Ethylene, Far East CFR SE Asia \$/MT	1,490	1,490/1,380	0.3%	0.7%	3.8%	2.4%	8.8%	1,474	1,448	1.7%	1,452	131	9.9%	1,440
Propylene (C), Spot CFR F/E U\$/MT	1,380	1,503/1,373	-0.4%	-2.8%	-2.6%	-4.5%	-6.0%	1,428	1,420	0.5%	1,436	70	5.1%	1,430
Polye HDPE Inj, South East Asia U\$/MT	1,615	1,620/1,510	0.0%	0.0%	2.2%	4.9%	7.0%	1,610	1,568	2.6%	1,573	116	7.9%	1,570
Polye LDPE-Film, Spot S.E Asia U\$/MT	1,605	1,680/1,595	-0.3%	-0.3%	0.3%	0.3%	-1.5%	1,605	1,605	0.0%	1,618	140	9.5%	1,640
Polye LLDPE Film, F/E Spot SE Asia \$/MT	1,605	1,615/1,520	0.0%	-0.6%	0.9%	3.2%	5.6%	1,608	1,577	1.9%	1,580	118	8.1%	1,580
PP Film, Spot South East Asia U\$/MT	1,615	1,625/1,530	0.0%	-0.6%	1.6%	3.5%	4.9%	1,616	1,581	2.2%	1,584	81	5.4%	1,570
Related stocks				-	C (Neutra	/	C(+) S		TPIPL (-	/				
Para-Xylene CFR Chin M. Por Spot \$/MT	1,287	1,496/1,143	-1.0%	-9.7%	0.2%	3.3%	-14.4%	1,382	1,263	9.5%	1,304	-218	-14.3%	1,190
Benzene, Far East CFR Spot F/E U\$/MT	1,245	1,385/1,220	-3.1%	-6.0%	-4.4%	-1.4%	-5.1%	1,321	1,293	2.1%	1,305	-20	-1.5%	1,240
Related stocks								ESSO (-)						
MEG, Far East Spot CFR F/E U\$/MT	973	1,084/889	-0.6%	-1.4%	0.1%	5.0%	-10.6%	989	939	5.3%	963	-94	-8.9%	
PTA CFR South East Asia	985	1,070/865	-1.5%	-5.3%	1.0%	8.2%	-8.8%	1,020	920	10.8%	953	-148	-13.4%	900
PET(Fibre Grade)A/P Spot CFR NEA \$/MT	1,265	1,400/1,185	-0.8%	-1.2%	1.6%	1.2%	-9.6%	1,280	1,217	5.2%	1,252	-168	-11.8%	n.a.
Related stocks						PTTGC ((-) IVL	(-)						
ABS Asia Pac. India Spot CFR U\$/MT	1,935	1,955/1,870	0.0%	0.0%	1.6%	3.2%	-0.5%	1,928	1,901	1.4%	1,903	-62	-3.2%	
Polystyrene-GP, Spot Hong Kong U\$/MT	1,685	1,915/1,685	-1.2%	-3.2%	-1.7%	-3.2%	-11.3%	1,730	1,733	-0.2%	1,748	-101	-5.5%	n.a.
Related stocks						IR	PC (+)							
PVC, Spot South East Asia U\$/MT	1,035	1,070/980	-1.4%	-2.8%	-1.9%	-1.4%	1.5%	1,057	1,035	2.1%	1,043	28	2.7%	1,070
Related stocks						VNT (-) TPC ((-)						
Product spread														
Ethylene - naphtha	688	688/524	1.3%	5.1%	18.0%	10.0%	37.5%	637	586	8.9%	603	107	21.5%	598
Propylene - naphtha	578	665/530	-0.2%	-2.7%	2.2%	-6.0%	-3.3%	591	557	6.2%	587	45	8.3%	588
HDPE - naphtha	813	819/638	0.5%	3.0%	11.7%	14.5%	26.9%	773	705	9.6%	724	91	14.4%	728
LDPE - naphtha	803	851/709	-0.1%	2.4%	7.3%	4.3%	5.6%	769	742	3.6%	769	115	17.7%	
LDPE - Ethylene	115	270/115	-8.0%	-11.5%	-30.3%	-20.7%	-55.8%	131	156	-15.9%	166	9	5.6%	
LLDPE - naphtha	803	819/662	0.5%	1.7%	8.8%	10.7%	23.5%	772	714	8.0%	731	93	14.7%	
PP - naphtha	813	829/657	0.5%	1.7%	10.2%	11.3%	21.3%	780	718	8.6%	735	56	8.2%	
PX - naphtha	485	673/304	-1.7%	-19.2%	12.1%	16.4%	-23.6%	546	400	36.6%	456	-242	-34.7%	348
BZ - naphtha	443	535/381	-7.5%	-11.3%	-1.7%	2.4%	0.0%	484	430	12.6%	456	-45	-9.0%	
MEG - Ethylene	49	228/-20	-15.0%	-29.3%	-40.5%	99.6%	-79.5%	75	41	82.2%	62	-175	-73.7%	217
PTA - PX	149	184/53	-4.4%	30.8%	6.0%	48.6%	44.8%	121	100	21.5%	106	-6	-5.6%	
PET spread	156	253/121	2.4%	26.6%	8.2%	-27.6%	-11.7%	138	170	-18.6%	172	-20	-10.2%	n.a.
Integrated PET/PTA spread	305	352/190	-1.1%	28.6%	7.1%	-3.5%	9.1%	259	269	-3.8%	277	-26	-8.5%	n.a.
ABS spread	1,205	1,229/1,070	1.7%	4.1%	8.2%	11.9%	-1.5%	1,149	1,103	4.2%	1,110	-52	-4.5%	n.a.
PS spread	269	468/214	3.9%	2.0%	-0.2%	-16.0%	-42.2%	259	291	-10.9%	296	-123	-29.3%	n.a.
PVC - ethylene	290	353/258	-5.7%	-10.8%	-14.1%	-10.1%	-13.4%	320	311	2.9%	317	-38	-10.7%	350
Source: Datastream, SCBS Investment Resea	rch													

Figure 1: Petrochemical price update

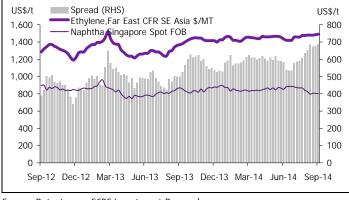
Source: Datastream, SCBS Investment Research

Note: Impact to related stocks is based on WoW performance

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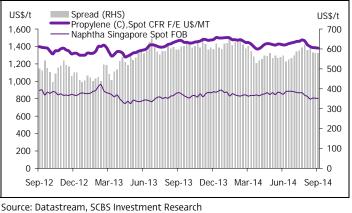
Petrochemicals

Figure 2: Ethylene vs. Naphtha



Sep-12 Dec-12 Mar-13 Jun-13 Sep-13 Dec-13 Mar-14 Jun-14 Sep-14

Figure 3: Propylene vs. Naphtha



Source: Datastream, SCBS Investment Research

Polye HDPE Inj,South East Asia U\$/MT

Naphtha Singapore Spot FOB



US\$/t

1.800

1,600

1,400

1,200

1,000

800

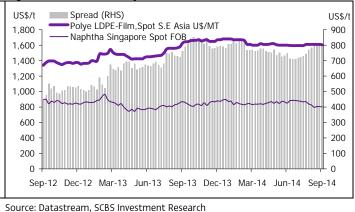
600

400

200

0

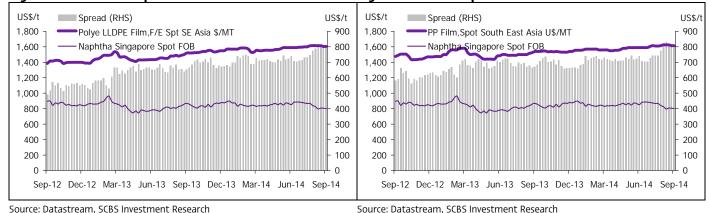




Source: Datastream, SCBS Investment Research

Figure 6: LLDPE vs. Naphtha





US\$/t

900

800

700

600

500

400

300

200

100

Ω

Figure 8: Polyethylene spread over ethylene

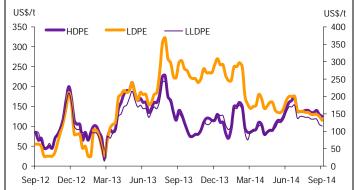
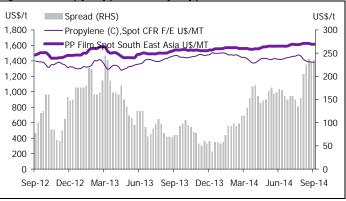


Figure 9: Polypropylene vs. propylene

Source: Datastream, SCBS Investment Research



Source: Datastream, SCBS Investment Research



Petrochemicals

Figure 10: Paraxylene vs. Naphtha

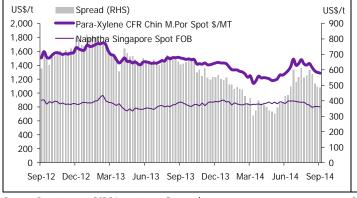
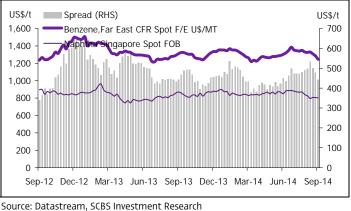
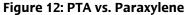


Figure 11: Benzene vs. Naphtha







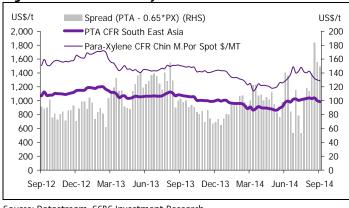
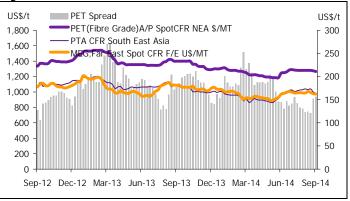


Figure 13: PET vs. PTA



Source: Datastream, SCBS Investment Research

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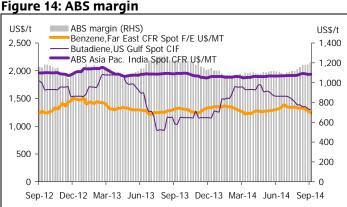
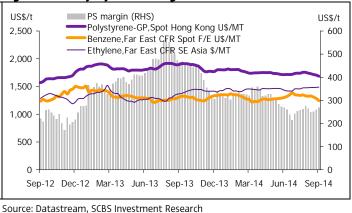


Figure 15: Polystyrene margin



Source: Datastream, SCBS Investment Research

Figure 16: PVC vs. ethylene

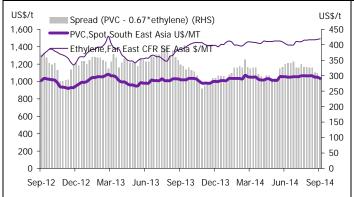
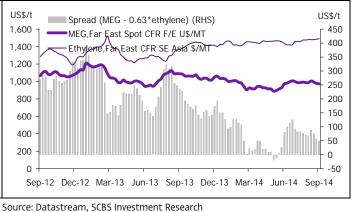


Figure 17: MEG vs. ethylene



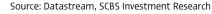




Figure 18: Selected product price/spread of listed companies

Company	Key products	% of tota	I Product price/spread	3Q14	2Q14	QoQ%	YTD	12MMA	2014F	Momentum
				QTD					orojection	
PTTGC	Ethylene/Propylene	21%	Ethylene,Far East CFR SE Asia \$/MT	1,474	1,448	2%	1,452	1,443	1,440	Я
			Propylene (C),Spot CFR F/E U\$/MT	1,428	1,420	1%	1,436	1,446	1,430	Ы
	HDPE	19%	Polye HDPE Inj,South East Asia U\$/MT	1,610	1,568	3%	1,573	1,558	1,570	→
	LLDPE	7%	Polye LLDPE Film, F/E Spt SE Asia \$/MT	1,608	1,577	2%	1,580	1,568	1,580	→
	LDPE	4%	Polye LDPE-Film, Spot S.E Asia U\$/MT	1,605	1,605	0%	1,618	1,631	1,640	→
	MEG	6%	MEG, Far East Spot CFR F/E U\$/MT	989	939	5%	963	989	1,110	→
	PX	28%	PX - naphtha	546	400	37%	456	498	348	→
	BZ	15%	BZ - naphtha	484	430	13%	456	454	398	Ы
IRPC	Ethylene/Propylene	15%	Ethylene - naphtha	637	586	9%	603	593	598	7
			Propylene - naphtha	591	557	6%	587	596	588	→
	HDPE	12%	HDPE - naphtha	773	705	10%	724	709	728	7
	PP	28%	PP - naphtha	780	718	9%	735	721	728	7
	ABS	7%	ABS spread	1,149	1,103	4%	1,110	1,131	n.a.	7
	BTX	23%	BZ - naphtha	484	430	13%	456	454	398	Я
	PS	12%	PS spread	259	291	-11%	296	326	n.a.	→
SCC	HDPE	40%	HDPE - naphtha	773	705	10%	724	709	728	7
	LDPE	3%	LDPE - naphtha	769	742	4%	769	782	798	7
	LLDPE	3%	LLDPE - naphtha	772	714	8%	731	719	738	7
	PP	25%	PP - naphtha	780	718	9%	735	721	728	7
	PVC	28%	PVC - Ethylene/EDC	437	405	8%	419	408	n.a.	Ы
TPIPL	LDPE	60%	LDPE - Ethylene	131	156	-16%	166	188	200	И
ТОР	РХ	60%	PX - naphtha	546	400	37%	456	498	348	>
	BZ	21%	BZ - naphtha	484	430	13%	456	454	398	Я
IVL	PTA	25%	PTA - PX	121	100	21%	106	98	103	7
	PET/Polyester	67%	PET spread	138	170	-19%	172	175	n.a.	7
	MEG	8%	•							
VNT	PVC	63%	PVC - ethylene	320	311	3%	317	310	350	Я
TPC	PVC	100%	PVC - Ethylene/EDC	437	405	8%	419	408	n.a.	Я

Source: Datastream, SCBS Investment Research

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