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3Q, 2017 Overview

Sales & Operating Income

Operating Income

- ❖ Sales decreased by 2.7% since the last quarter and rose by 21.2% over the previous year to KRW 1,205.1bn.
- Operating income increased by 30.8% since the last quarter and by 145.5% over the previous year to KRW 57.7bn.

(Unit: KRW bn)

Sales		(Unit: KRW bn)
1,2	1,239.	994.4
3Q,'17	2Q,'17	3Q,'16

57.7	44.1	23.5
3Q,'17	2Q,'17	3Q,'16

	(Office KKVV BI)					
	3Q,'17	2Q,'17	3Q,'16	Rate of change		
	3Q,17	ZQ, 17	3Q, 10	QoQ	YoY	
S a l e s	1,205.1	1,239.1	994.4	-2.7%	21.2%	
[Synthetic Rubbers]	463.5	499.5	379.3	-7.2%	22.2%	
[Synthetic Resins]	308.9	293.8	247.8	5.1%	24.7%	
[Others]	432.7	445.8	367.3	-2.9%	17.8%	
Phenol Derivatives	287.3	295.5	240.9	-2.8%	19.3%	
Specialty Chemicals	35.8	35.5	30.7	0.8%	16.6%	
Energy	38.0	37.4	32.2	1.6%	18.0%	
Others	71.6	77.4	63.5	-7.5%	12.8%	
Operating Income	57.7	44.1	23.5	30.8%	145.5%	
[%]	4.8%	3.6%	2.4%	1.2%p	2.4%p	
Income before Income Taxes	78.1	52.8	22.9	47.9%	241.0%	
Net Income	56.5	36.7	17.8	54.0%	217.4%	
Equity Income/Losses on Investments	37.7	21.4	5.7	76.2%	561.4%	
/ Not Incomo is based	on Control	lling Interes	+-			

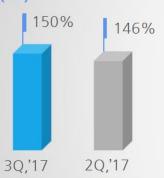
[✓] Net Income is based on Controlling Interests.

3Q, 2017 Overview

Financial Structure

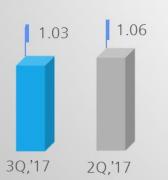
- Interest coverage ratio increased due to improved performance in major businesses.
- Stable financial structure maintained in accordance with a decrease in debt and continuous liquidity management.

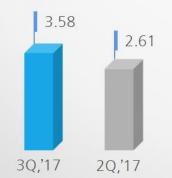
Debt to Equity Ratio (%)





Total Assets Turnover	Interest Coverage
Ratio	Ratio





					(OIII	L. KINVV DII)
	Unit	3Q,'17	2Q,'17	3Q,'16	Rate of	change
	3.00000000		Control of the Control		QoQ	YoY
Assets	KRW bn	4,735.4	4,617.8	4,394.4	2.5%	7.8%
Liabilities	KRW bn	2,838.3	2,743.3	2,644.0	3.5%	7.3%
Shareholders' Equity		1,897.1	1,874.5	1,750.4	1.2%	8.4%
Controlling Interests	KRW	1,786.3	1,764.0	1,637.3	1.3%	9.1%
Non- controlling Interests	bn	110.8	110.5	113.1	0.3%	-2.0%
Debt toEquity Ratio	%	150	146	151	4%p	-1%p
Borrowings		2,005.6	2,133.3	1,985.5	-6.0%	1.0%
Won- denominated	KRW bn	1,544.7	1,623.5	1,564.0	-4.9%	-1.2%
Foreign currency- denominated		460.9	509.8	421.5	-9.6%	9.3%
Total Assets Turnover Ratio		1.03	1.06	0.90	-2.8%	14.4%
Interest Coverage Ratio		3.58	2.61	1.40	37.2%	155.7%

Business Review

Synthetic Rubbers

38.5% of Total sales

Synthetic Rubbers

Synthetic Resins

Others



- Sales declined by 7.2% over the previous quarter to KRW 463.5bn.
- Increased profitability and sales volume due to the hike in BD price and improved buying interest.

Increase in BD price

- Upward trend of BD price caused by increased demand in the favorable ABS market and demand prior to the week-long holidays in early Oct.
- Tight supply continued in accordance with shutdowns of some crackers and delays in scheduled arbitrages.

> BD Price changes by region

2.0	1 1	20.00	LICE	11 \
- (IIn	IT		/ton)
- 1	UII	11.	UJU	10111

	Apr.'17	May.'17	Jun.'17	Jul.'17	Aug.'17	Sep.'17
Asia	1,325	1,113	947	989	1,170	1,516
N. America	1,934	1,375	1,133	871	808	1,008
Europe	1,686	1,450	976	719	817	1,114

* Source: ICIS/PLATTS 2017

Improvement in profitability of synthetic rubber

- Improvement in profitability resulted from the upward trend of the selling prices as well as the BD price.
- Growth in sales volume caused by improved buying interest and decreased total rubber inventory in the region subsequent to the decline in natural rubber inventory.

 (Unit: USD/ton)

	Apr.'17	May.'17	Jun.'17	Jul.'17	Aug.'17	Sep.'17
SBR	2,016	1,734	1,418	1,463	1,434	1,678
BR	2,244	1,963	1,550	1,588	1,588	1,870

* Source: ICIS 2017

Business Review

Synthetic Resins

Sales increased by 5.1% over the previous quarter to KRW 308.9bn.

Enhanced profitability due to robust demand and strong raw material prices.

25.6% of Total sales

Synthetic Rubbers

Synthetic Resins

Others

· Strong raw material (SM) price

- Strong SM price resulted from robust demand in a favorable downstream market.
- Tight supply continued due to low inventory in the region as well as shutdowns.

> SM Price changes

(Unit: USD/ton, CFR China)

	Apr.'17	May.'17	Jun.'17	Jul.'17	Aug.'17	Sep.'17
SM	1,151	1,081	1,126	1,162	1,200	1,345

* Source: ICIS 2017

· Improvement in profitability of synthetic resin

- Increase in sales volume and sales revenue due to a robust seasonal demand and restocking demand before the week-long holidays.
- Enhanced profitability due to strong raw material prices which had impacted selling prices to rise.

(Unit: USD/ton)

	Apr.'17	May.'17	Jun.'17	Jul.'17	Aug.'17	Sep.'17
PS	1,293	1,215	1,242	1,280	1,296	1,485
ABS	1,703	1,610	1,709	1,799	1,856	2,024

* Source: PLATTS 2017



Business Review

Others

35.9% Of Total sales

Synthetic Rubbers

Synthetic R e s i n s

Others

- Sales decreased by 2.9% over the previous quarter to KRW 432.7bn.
- Phenol derivatives: Diminished profitability resulted from an upward trend of raw material prices.
- Energy: Slight decline in profitability caused by a weak electricity price (SMP) and an increase in raw material price.

Phenol derivatives

- Slight upward trend of raw material price (Benzene) resulted from strong SM price, despite an ample inventory in the region.
- Diminished profitability resulted from an upward trend of raw material prices with no changes in demand.

➤ BZ Price changes

(Unit: USD/ton, FOB Korea)

	Apr.'17	May.'17	Jun.'17	Jul,'17	Aug.'17	Sep.'17
BZ	808	750	748	726	755	795

* Source: PLATTS 2017

Energy

- Slight decline in profitability caused by a weak electricity price (SMP) and an increase in raw material price.
- > SMP Price changes

(Unit: KRW/KW)

	Apr.'17	May.'17	Jun.'17	Jul.'17	Aug.'17	Sep.'17
SMP	75	78	82	76	76	73

Source: Korea Power Exchange



4Q, 2017 Outlook

BD

- Supply is expected to be stable due to operation of a new BD plant in the region and arrivals of delayed deep-sea cargoes.
- Price is expected to be weak as a result of shutdowns in the region which may cause a decrease in demand.

• Supply is forecast to be stable in response to high synthetic rubber inventory in the region regardless of shutdowns.

Synthetic Rubbers

 Price is anticipated to be weak in accordance with the forecast on the weak raw material price and the possibility of inventory adjustment by the customers.



- Supply is expected to be stable due to re-operations of SM makers and arrivals of deep-sea cargoes despite the delays of new operations.
- The supply-demand balance is expected to be stable caused by the favorable downstream market; for this reason, price is likely to be stabilized.

• In spite of a robust demand than usual, wait-and-see in the demand is expected due to the arrival of off-season period and a stable price in the feedstock.

 Price is anticipated to be stabilized after a drop in prices of both feedstocks and products in the early quarter. Synthetic Resins

Income Statement

				Rate of change			
	3Q,'17	2Q,'17	3Q,'16	QoQ		YoY	
				Amount	Rate of change	Amount	Rate of change
Sales	1,205.1	1,239.1	994.4	-34.0	-2.7%	210.7	21.2%
Operating Income	57.7	44.1	23.5	13.6	30.8%	34.2	145.5%
(Operating Margin)	4.8%	3.6%	2.4%	1.2%p	=	2.4%p	=
Net Interest Expense	15.9	22.2	10.1	-6.3	-28.4%	5.8	57.4%
Equity Income/Losses on Investments	37.7	21.4	5.7	16.3	76.2%	32.0	561.4%
Income before Income Taxes	78.1	52.8	22.9	25.3	47.9%	55.2	241.0%
(Ordinary Income Margin)	6.5%	4.3%	2.3%	2.2%p	-	4.2%p	=
Net Income	56.5	36.7	17.8	19.8	54.0%	38.7	217.4%
(Net Income Margin)	4.7%	3.0%	1.8%	1.7%p	-	2.9%p	-

[✓] Net Income is based on Controlling Interests.

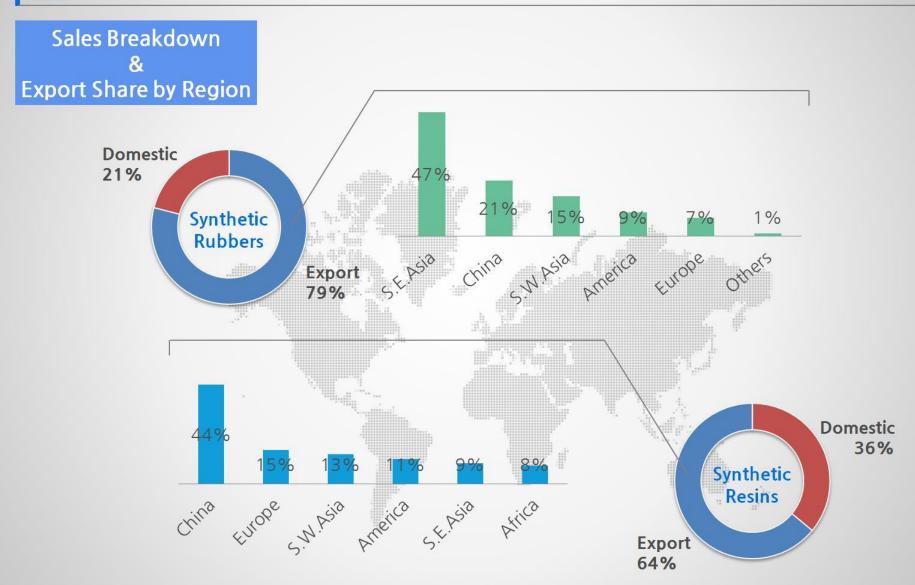
Balance Sheet

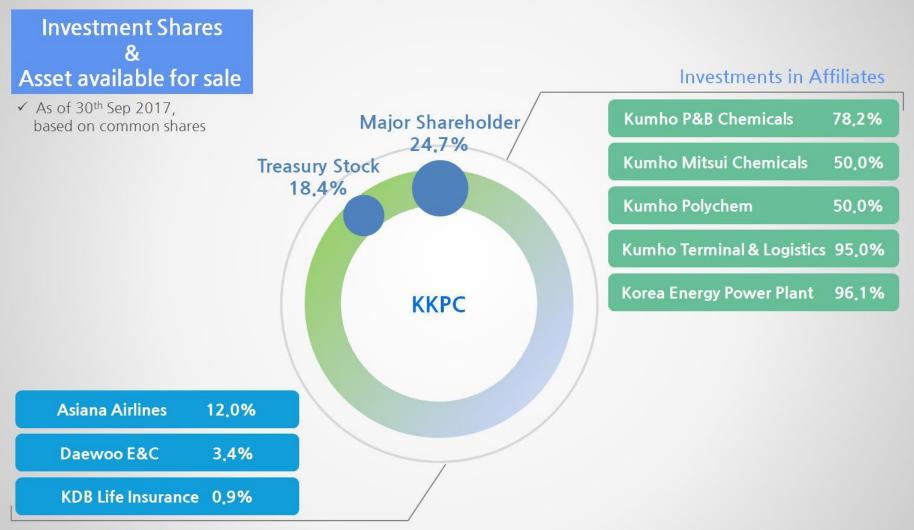
	20.47	20 17	20 /16	Rate of change		
	3Q,'17	2Q,'17	3Q,'16	QoQ	YoY	
Current Assets	1,452.3	1,307.6	1,009.3	144.7	443.0	
- Cash and Cash Equivalents	366.8	241.3	54.8	125.5	312.0	
Non-current Assets	3,283.1	3,310.2	3,385.1	-27.1	-102.0	
Total Assets	4,735.4	4,617.8	4,394.4	117.6	341.0	
Current Liabilities	2,065.3	1,975.1	1,768.0	90.2	297.3	
Non-current Liabilities	773.0	768.2	876.0	4.8	-103.0	
■ Interest bearing Liabilities	2,005.6	2,133.3	1,985.5	-127.7	20.1	
- Short-term Debts	1,373.5	1,498.7	1,244.2	-125.2	129.3	
- Long-term Debts	632.1	634.6	741.3	-2.5	-109.2	
■ Non-interest bearing Liabilities	832.7	610.0	658.5	222.7	174.2	
Total Liabilities	2,838.3	2,743.3	2,644.0	95.0	194.3	
Common & Preferred Stock	167.5	167.5	167.5		-	
Total Shareholders' Equity	1,897.1	1,874.5	1,750.4	22.6	146.7	
Net Debt to Asset Ratio	34.6%	41.0%	43.9%	-6.4%	-9.3%	
Long-term Debts to Total Debts Ratio	31.5%	29.7%	37.3%	1.8%	-5.8%	
Current Ratio	70.3%	66.2%	57.1%	4.1%	13.2%	
Debt to Equity Ratio	149.6%	146.3%	151.1%	3.3%	-1.5%	

Production Capacity (KKPC)

	Pro	duct	Capa.	Unit	Note
	SBR		384,000		
	BR	HBR	290,000		
	DK	LBR	45,000		
	S-SBR		63,000	MT/Y	
	NdBR		60,000		
Synthetic	NBR		87,000		
Rubbers	HSR		10,000		
	NB Latex		400,000		Completion of Expansion: 200,000MT/Y(Multi-purpose),2H,'16
	SB Latex SBS Total		81,800		
			75,000		
			1,495,800		
	PS ABS SAN/POW EPS		230,000		
			250,000		
Synthetic			145,000	MT/Y	
Resins			80,000		
	PPG 141,000				
	Total		846,000		
Specialty Chemicals	Antio	xidants	83,500	MT/Y	
-	Ste	eam	1,710	T/H	
Energy	Elec	tricity	300	MWH	
•	Ulsan Yeosu Total		90,000		
BD			147,000	MT/Y	
			237,000		

Production		Product	Capa.	Unit	Note
Capacity (Affiliates)		Phenol	680,000		
(Attitudes)	Kumho P&B Chemicals	Acetone	420,000	MT/Y	
		MIBK	60,000		
		Cumene	900,000		
		BPA	450,000		
		Epoxy Resin	135,000		Completion of Expansion: 17,000MT/Y, 2H, '17
		Total	2,645,000		
	Kumho Mitsui Chemicals	MDI	250,000	MT/Y	Completion of Expansion: 100,000MT/Y, 2H,'17
		Aniline	2,000		
		Total	252,000		
		EP(D)M	220,000	MT/Y	
	Kumho Polychem	TPV/KEPA	7,000		Completion of Expansion: TPV 5,000MT/Y, 4Q,'17
		Total	227,000		





Asset available for sale

Q&A