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#### 1Q, 2017 Overview

#### Sales & Operating Income

- Sales increased by 28.8% since the last quarter and rose by 61.6% over the previous year to KRW 1,408.2bn.
- Operating income increased by 200.0% since the last quarter and increased by 41.9% over the previous year to KRW 65.7bn.

(Unit: KRW bn)

Sales			(Unit: KRW bn)
	1,408.2	1,093.0	871.5
'1	7.1Q	'16.4Q	'16.1Q

Operating In	come	(Unit: KRW bn)
65.7		
		46.3
	21.9	
'17.1Q	'16.4Q	'16.1Q

				(U	Init. KRVV Dn)
	1Q,'17	4Q,'16	1Q,'16	Rate of	change
	10,17	40,10	10,16	QoQ	YoY
S a l e s	1,408.2	1,093.0	871.5	28.8%	61.6%
[Synthetic Rubbers]	636.2	445.2	347.0	42.9%	83.3%
[Synthetic Resins]	303.5	259.6	256.6	16.9%	18.3%
[Others]	468.5	388.2	267.9	20.7%	74.9%
Phenol Derivatives	309.2	235.2	160.0	31.5%	93.3%
Specialty Chemicals	33.6	33.8	29.4	-0.6%	14.3%
Energy	47.8	46.6	24.6	2.6%	94.3%
Others	77.9	72.6	53.9	7.3%	44.5%
Operating Income	65.7	21.9	46.3	200.0%	41.9%
[ % ]	4.7%	2.0%	5.3%	2.7%p	-0.6%p
Income before Income Taxes	88.4	-26.9	50.9	Deficit to surplus	73.7%
Net Income	69.0	-27.8	38.2	Deficit to surplus	80.6%
Gain/Loss on Valuation of Equity Method Investments	18.4	3.9	9.9	371.8%	85.9%
✓ Net Income is based	on Contro	lling Interes	ts		

<sup>✓</sup> Net Income is based on Controlling Interests.

#### 1Q, 2017 Overview

#### Financial Structure

- ❖ Total asset turnover ratio and interest coverage ratio increased through improved performance of major businesses.
- Financial structure stably maintained in accordance with continuous liquidity management despite an increase in burden in the working capital.

## Debt to Equity Ratio (%)





Interest Coverage

**Borrowings** 

	OTTIL	19,17	79,10 19,10			
	2000000	0.000	A 200 No.	0.000	QoQ	YoY
Assets	KRW bn	4,760.7	4,546.1	4,280.5	4.7%	11.2%
Liabilities	KRW bn	2,961.3	2,818.2	2,597.5	5.1%	14.0%
Shareholders' Equity		1,799.4	1,727.9	1,683.0	4.1%	6.9%
Controlling Interests	KRW	1,689.8	1,619.7	1,580.1	4.3%	6.9%
Non- controlling Interests	bn	109.6	108.2	102.9	1.3%	6.5%
Debt to Equity Ratio	%	165	163	154	2%p	11%p
Borrowings		2,177.1	2,080.6	1,989.3	4.6%	9.4%
Won- denominated	KRW	1,566.9	1,547.6	1,573.0	1.2%	-0.4%
Foreign currency- denominated	bn	610.2	533.0	416.3	14.5%	46.6%
Total Assets Turnover Ratio		1.21	1.00	0.82	21.0%	47.6%
Interest Coverage Ratio		3.98	1.49	3.89	167.1%	2.3%

(Unit: KRW bn)

Rate of change

#### Total Assets Turnover Ratio





#### **Business Review**

## Synthetic Rubbers

45.2% of Total sales

Synthetic Rubbers

Synthetic R e s i n s

Others



An improvement in profitability caused by a hike in selling price due to a sharp increase in raw material (BD) price.

#### · A hike in BD (Butadiene) price

- Reached strong BD price after a sharp increase as a result of expectations for an improvement in demand and a tight supply from scheduled maintenances.
- Fall back in BD price at the end of quarter due to an increase in inventory and a wait-and-see attitude which resulted in the decrease in the trading volume.

> BD Price changes by region

(Unit: USD/ton)

	Oct.'16	Nov.'16	Dec.'16	Jan.'17	Feb.'17	Mar.'17
Asia	1,596	1,468	1,978	2,935	3,030	2,170
N. America	1,139	1,146	1,251	1,885	2,651	2,529
Europe	1,019	1,008	1,203	1,931	2,325	2,126

\* Source: ICIS/PLATTS 2016, 2017

#### Improvement in profitability of synthetic rubber

- Increase in sales revenue and improvement in profitability due to prolonging of strong raw material prices which resulted in an increase in selling price, despite a temporary reduction of the BR-BD spread caused by a hike in BD price at the beginning of the year
- Expanded sales volume in accordance with the increase in tire prices and stable operating rates of tire makers in the region

  (Unit: USD/ton)

Dec.'16 Oct.'16 Nov.'16 Jan.'17 Mar.'17 Feb.'17 SBR 1,617 1,662 1,849 2,394 2,697 2,501 BR 1.863 1.856 2,144 2,756 3,238 2,960

\* Source: ICIS 2016, 2017



#### **Business Review**

## Synthetic Resins

21.5% of Total sales

Synthetic Rubbers

Synthetic Resins

Others

- Sales increased by 16.9% over the previous quarter to KRW 303.5bn.
- Slight improvement in profitability due to passing the strong raw material (SM/BD) cost to the selling prices.

#### Strong raw material (SM) price

- Strong SM price resulted from both a decrease in supply caused by scheduled shutdowns and a reduction in arbitrage as a result of unexpected troubles.
- Downward pressure on the price at the end of quarter resulted from ample inventory

#### ➤ SM Price changes

(Unit: USD/ton, CFR China)

	Oct.'16	Nov.'16	Dec.'16	Jan.'17	Feb.'17	Mar.'17
SM	1,031	1,176	1,226	1,326	1,478	1,261

\* Source: ICIS 2016, 2017

#### · Slight growth in profitability of synthetic resin

- Growth in sales revenue and improvement in profitability by passing the strong raw material (SM/BD) cost to the selling prices.

(Unit: USD/ton)

	Oct.'16	Nov.'16	Dec.'16	Jan.'17	Feb.'17	Mar.'17
PS	1,170	1,231	1,316	1,374	1,500	1,385
ABS	1,440	1,545	1,643	1,810	1,958	1,828

\* Source: PLATTS 2016, 2017



#### **Business Review**

#### **Others**

33.3% Of Total sales

Synthetic Rubbers

Synthetic Resins

Others

- Sales increased by 20.7% over the previous quarter to KRW 468.5bn.
- Phenol derivatives: Profitability recovered due to strong raw material prices and a decrease in supply caused by adjustments of operating rate.
- Energy: Growth in sales revenue due to favorable utilization rates of demand-side and a strong electricity price (SMP).

#### Phenol derivatives

- Strong raw material (BZ) price resulted by strong oil prices and solid demand (SM).
- Expansion of sales revenue and recovery of profitability due to strong raw material prices and a decrease in supply caused by adjustments in the operating rate

#### ➤ BZ Price changes

(Unit: USD/ton, FOB Korea)

	Oct.'16	Nov.'16	Dec.'16	Jan.'17	Feb.'17	Mar.'17
BZ	635	686	819	931	1,010	835

\* Source: PLATTS 2016, 2017

#### Energy

- Growth in sales volume and revenue due to favorable utilization rates from the demand-side.
- Maintained profitability resulted from a continuous strong electricity price (SMP) despite a rise in cost.

#### > SMP Price changes

(Unit: KRW/KW)

	Oct.'16	Nov.'16	Dec.'16	Jan.'17	Feb.'17	Mar.'17
SMP	73	75	87	86	91	92

\* Source: Korea Power Exchange



#### 2Q, 2017 Outlook



- Supply is anticipated to be stable due to ample inventory of downstream makers despite annual maintenances.
- Price is likely to be volatile depending on demand under the situation where the market is lull as a result of a downward trend of BD price.

• Wait-and-see attitude in the demand is expected due to an ample inventory of rubbers within the region and a sufficient inventory of tire makers.

Synthetic Rubbers

• Limited increase in SR price is expected because NR price could be under the downward pressure after the wintering season.



- The supply-demand balance is anticipated to be stable, caused by re-operations
  of makers after unexpected troubles and an increase in supply, despite scheduled
  maintenances of SM makers within the region.
- SM price is forecasted to be weak and stable due to ample inventory within the area, even in the peak season of the downstream makers.

 Actual demand could fluctuate depending on the raw material prices, in spite of the expectation for the demand growth in the traditional peak season.

 Limited increase in selling price is forecasted according to the expectation for the weak and stable price of raw material (SM). Synthetic Resins

#### **Income Statement**

(Unit: KRW bn)

					Rate of	change	
	1Q,'17	40,'16	40,'16 10,'16	Qo	oQ	YoY	
				Amount	Rate of change	Amount	Rate of change
Sales	1,408.2	1,093.0	871.5	315.2	28.8%	536.7	61.6%
Operating Income	65.7	21.9	46.3	43.8	200.0%	19.4	41.9%
(Operating Margin)	4.7%	2.0%	5.3%	2.7%p	_	-0.6%p	=
Net Interest Expense	-11.1	31.4	8.4	-42.5	-	-19.5	-
Gain/Loss on Valuation of Equity Method Investments	18.4	3.9	9.9	14.5	371.8%	8.5	85.9%
Income before Income Taxes	88.4	-26.9	50.9	115.3	Deficit to surplus	37.5	73.7%
(Ordinary Income Margin)	6.3%	-2.5%	5.8%	8.8%p	-	0.5%p	_
Net Income	69.0	-27.8	38.2	96.8	Deficit to surplus	30.8	80.6%
(Net Income Margin)	4.9%	-2.5%	4.4%	7.4%p		0.5%p	-

<sup>✓</sup> Net Income is based on Controlling Interests.

#### **Balance Sheet**

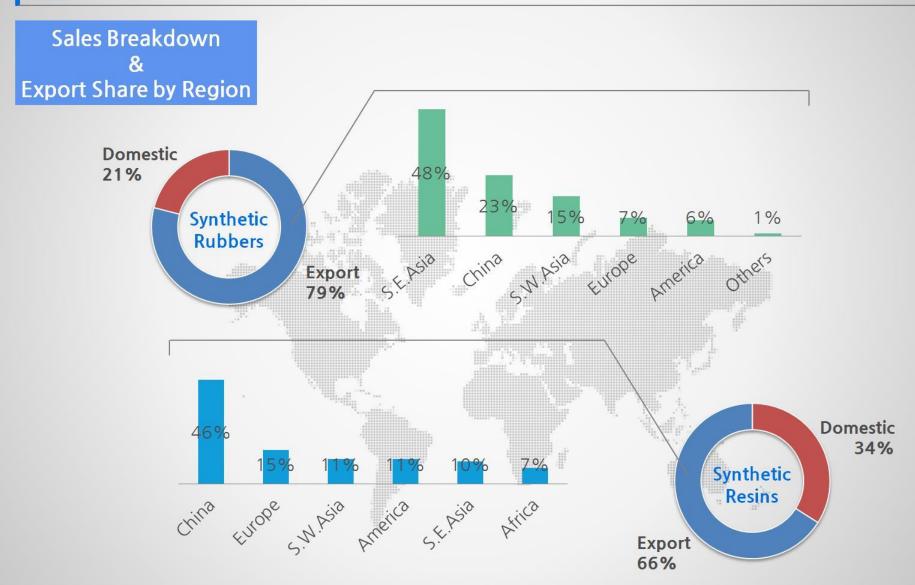
(Unit: KRW bn)

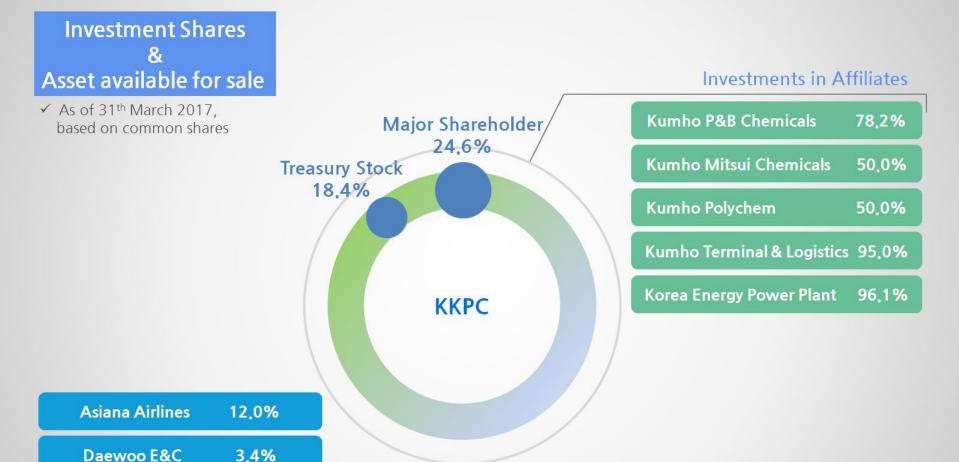
	10 '17	10.16	10.16	Rate of	change
	1Q,'17	4Q,'16	1Q,'16	QoQ	YoY
Current Assets	1,479.2	1,255.3	1,006.6	223.9	472.6
- Cash and Cash Equivalents	118.0	197.0	102.0	-79.0	16.0
Non-current Assets	3,281.5	3,290.8	3,273.9	-9.3	7.6
Total Assets	4,760.7	4,546.1	4,280.5	214.6	480.2
Current Liabilities	2,214.4	2,145.6	1,668.4	68.8	546.0
Non-current Liabilities	746.9	672.6	929.1	74.3	-182.2
■ Interest bearing Liabilities	2,177.1	2,080.6	1,989.3	96.5	187.8
- Short-term Debts	1,554.0	1,521.1	1,191.3	32.9	362.7
- Long-term Debts	623.1	559.5	798.0	63.6	-174.9
■ Non-interest bearing Liabilities	784.2	737.6	608.2	46.6	176.0
Total Liabilities	2,961.3	2,818.2	2,597.5	143.1	363.8
Common & Preferred Stock	167.5	167.5	167.5	-	-
Total Shareholders' Equity	1,799.4	1,727.9	1,683.0	71.5	116.4
Net Debt Ratio	43.3%	41.4%	44.1%	1.9%p	-0.8%p
Long-term Debts to Total Debts Ratio	28.6%	26.9%	40.1%	1.7%p	-11.5%p
Current Ratio	66.8%	58.5%	60.3%	8.3%p	6.5%p
Debt to Equity Ratio	164.6%	163.1%	154.3%	1.5%p	10.3%p

Production Capacity (KKPC)

	Pro	duct	Capa.	Unit	Note
	S	BR	360,000		
	BR	HBR	290,000		
	DK	LBR	45,000		
	S-	SBR	63,000		
	No	dBR	60,000		
Synthetic	N	BR	80,000	MT/Y	
Rubbers	Н	ISR	10,000		
	NB	Latex	400,000		Completion of Expansion: 200,000MT/Y(Multi-purpose),2H,'16
	SBI	Latex	81,800		
	S	BS	75,000		
	To	otal	1,464,800		
	ļ ļ	PS	230,000		
	А	BS	250,000		
Synthetic	SAN	/POW	145,000	MT/Y	
Resins	E	PS	80,000	IVII/I	
	Р	PG	141,000		
	To	otal	846,000		
Specialty Chemicals	Antio	xidants	83,500	MT/Y	
-	Ste	eam	1,710	T/H	
Energy	Elec	tricity	300	MWH	
	UI	san	90,000		
BD	Ye	osu	147,000	MT/Y	
	To	otal	237,000		

oduction		Product	Capa.	Unit	Note
Capacity (Affiliates)		Phenol	680,000		
	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, 2Q,'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		
	Kumho Polychem	EP(D)M	220,000	MT/Y	
		TPV/KEPA	7,000		Completion of Expansion: TPV 5,000MT/Y, 4Q,'17
		Total	227,000		





Asset available for sale

KDB Life Insurance 0.9%

# Q&A