INVESTOR RELATIONS

2018 30



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3Q, 2018 Overview

Sales Operating Income

- ❖ Sales increased by 0.6% since the last quarter and by 20.4% over the previous year to KRW 1,450.6bn.
- Operating income decreased by 1.6% since the last quarter and soared by 161.7% over the previous year to KRW 151.0bn.

(Unit: KRW bn)

| Sales | | (Unit: KRW bn) |
|---------|---------|----------------|
| 1,450.6 | 1,441.8 | 1,205.1 |
| 3Q,'18 | 2Q,'18 | 3Q,'17 |

| Operat | ing Inco | ome | (Unit: KRW bn) |
|--------|----------|--------|----------------|
| | 151.0 | 153.5 | |
| | | | 57.7 |
| 3Q |),'18 | 2Q',18 | 3Q,'17 |

| | 20.710 | 00 '10 | 20 '17 | Rate of (| Change |
|---|---------|---------|---------|-----------|--------|
| | 3Q,'18 | 2Q,'18 | 3Q,'17 | QoQ | YoY |
| S a l e s | 1,450.6 | 1,441.8 | 1,205.1 | 0.6% | 20.4% |
| [Synthetic Rubbers] | 539,5 | 516.6 | 463.5 | 4.4% | 16.4% |
| [Synthetic Resins] | 320.7 | 324.1 | 308.9 | -1.0% | 3.8% |
| [Others] | 590.4 | 601.1 | 432.7 | -1.8% | 36.4% |
| Phenol Derivatives | 453.6 | 452.9 | 287.3 | 0.2% | 57.9% |
| Specialty Chemicals | 35.6 | 34.8 | 35.8 | 2.3% | -0.6% |
| Energy | 44.1 | 42.4 | 38.0 | 4.0% | 16.1% |
| Others | 57.1 | 71.0 | 71.6 | -19.6% | -20.3% |
| Operating Income | 151.0 | 153.5 | 57.7 | -1.6% | 161.7% |
| [%] | 10.4% | 10.6% | 4.8% | -0.2%p | 5.6%p |
| Income before Income Taxes | 162.4 | 181.1 | 78.1 | -10.3% | 107.9% |
| Net Income | 122.4 | 175.3 | 56.5 | -30.2% | 116.6% |
| Equity Income/Losses on Investments | 25.7 | 41.2 | 37.7 | -37.6% | -31.8% |

[✓] Net Income is based on Controlling Interests.

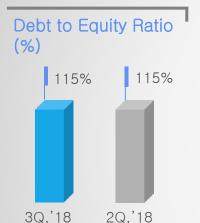
3Q, 2018 Overview

Financial Structure

- Interest Coverage Ratio increased as a result of favorable performances in major businesses.
- Financial structure maintained its stability through the continuous management of liquidity such as the improved current ratio.

Coverage Ratio

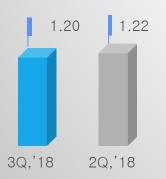
(Unit: KRW bn)





| | Unit | 3Q.'18 | 2Q,'18 | 3Q,'17 | Rate of Change | | |
|----------------------------------|-----------|---------|---------|---------|----------------|--------|--|
| | Offic | 00.10 | ZQ, 10 | 00, 17 | QoQ | YoY | |
| Assets | KRW bn | 4,952.9 | 4,703.7 | 4,735.4 | 5.3% | 4.6% | |
| Liabilities | KRW bn | 2,650.8 | 2,519.0 | 2,838.3 | 5.2% | -6.6% | |
| Shareholders' Equity | | 2,302.1 | 2,184.7 | 1,897.1 | 5.4% | 21.3% | |
| Controlling Interests | KRW bn | 2,297.9 | 2,180.6 | 1,786.3 | 5.4% | 28.6% | |
| Non- controlling Interests | DII | 4.2 | 4.1 | 110.8 | 2.4% | -96.2% | |
| Debt to <u>Equity Ratio</u> | % | 115 | 115 | 150 | 0%p | -35%p | |
| Borrowings | | 1,618.0 | 1,619.7 | 2,005.6 | -0.1% | -19.3% | |
| Won- denominated | KRW bn | 1,267.4 | 1,258.7 | 1,544.7 | 0.7% | -18.0% | |
| Foreign currency-denominated | DII | 350.6 | 361.0 | 460.9 | -2.9% | -23.9% | |
| Total Assets Turnover Ratio | | 1.20 | 1.22 | 1.03 | -1.9% | 16.6% | |
| Interest | | 10.86 | 10.66 | 3.58 | 1.9% | 203.1% | |

Total Assets Turnover Ratio





Interest Coverage

Business Review

Synthetic Rubbers

37.2% of Total sales

Synthetic Rubbers

Synthetic Resins

Others



Profitability declined due to sluggish improvement in spread, despite the manufacturing cost rise resulting from purchasing BD price increase.

A wide fluctuation in the BD price

 In the short time, there was a sharp increase in the BD price due to troubles and regular maintenance in the region but a downtrend caused by weak demand for downstream at the end of the quarter.

> BD Price changes by region

(Unit: USD/ton)

| | Apr.'18 | May.'18 | Jun.'18 | Jul.'18 | Aug.'18 | Sep.'18 |
|------------|---------|---------|---------|---------|---------|---------|
| Asia | 1,380 | 1,670 | 1,710 | 1,623 | 1,721 | 1,499 |
| N. America | 1,450 | 1,631 | 1,658 | 1,582 | 1,628 | 1,638 |
| Europe | 1,213 | 1,462 | 1,513 | 1,484 | 1,536 | 1,456 |

Source: ICIS/PLATTS 2018

Decreased profitability of synthetic rubber

- Purchasing BD price increased due to similar period between buying time for proper inventory production and the maintenance of NCC.
- Profitability declined due to sluggish improvement in product prices, despite the manufacturing cost rise.

(Unit: USD/ton)

| | Apr.'18 | May.'18 | Jun.'18 | Jul.'18 | Aug.'18 | Sep.'18 |
|-----|---------|---------|---------|---------|---------|---------|
| SBR | 1,559 | 1,683 | 1,733 | 1,631 | 1,670 | 1,659 |
| BR | 1,806 | 1,944 | 2,030 | 1,875 | 2,060 | 2,100 |

* Source: ICIS 2018



Business Review

Synthetic Resins

22.1% of Total sales

Synthetic Rubbers

Synthetic Resins

Others

- ❖ Sales decreased by 1.0% over the previous quarter to KRW 320.7bn.
- ❖ A drop in profitability because of weakened product prices resulting from domestic economic recession and the concerns of US-China trade war.

Weak price of raw material (SM)

- Increase in SM price resulted from the troubles(Taiwan/Europe) in the short term; but downturn caused by seasonal low and stagnation of downstream demand at the end of the quarter.

> SM Price changes

(Unit: USD/ton)

| | Apr.'18 | May.'18 | Jun.'18 | Jul.'18 | Aug.'18 | Sep.'18 |
|----|---------|---------|---------|---------|---------|---------|
| SM | 1,367 | 1,429 | 1,454 | 1,409 | 1,465 | 1,421 |

Source: ICIS 2018

· Decreased profitability of synthetic resins

- Profitability were dropped because of weak demand and the prolonged downward trend in the product price caused by domestic economic recession and the concerns of US-China trade war.

(Unit: USD/ton)

| | Apr.'18 | May.'18 | Jun.'18 | Jul.'18 | Aug.'18 | Sep.'18 |
|-----|---------|---------|---------|---------|---------|---------|
| PS | 1,505 | 1,539 | 1,572 | 1,491 | 1,511 | 1,499 |
| ABS | 1,980 | 2,048 | 2,044 | 1,866 | 1,932 | 1,838 |

* Source: PLATTS 2018



Business Review

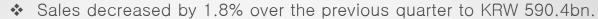
Others

40.7%
Of Total sales

Synthetic Rubbers

Synthetic Resins

Others



- Phenol derivatives: Profitability improved due to tight supply by troubles with Chinese Phenol producer.
- Energy: Profitability improved due to an increase in electricity selling price(SMP).

Phenol derivatives

- Benzene prices were higher due to an increase in oil and SM price but there was a slight downturn at the end of the quarter due to an oversupply in the region.
- An Increase in sales price and profitability resulted from the tight supply by troubles with the Chinese Phenol producer.

> BZ Price changes

| | Apr.'18 | May.'18 | Jun.'18 | Jul.'18 | Aug.'18 | Sep.'18 |
|----|---------|---------|---------|---------|---------|---------|
| BZ | 838 | 860 | 831 | 833 | 879 | 852 |

^{*} Source: PLATTS 2018

Energy

- Sales and profitability increased due to an increase in electricity selling price(SMP).

> SMP Price changes

| | Apr.'18 | May.'18 | Jun.'18 | Jul.'18 | Aug.'18 | Sep.'18 |
|-----|---------|---------|---------|---------|---------|---------|
| SMP | 90 | 87 | 89 | 86 | 90 | 91 |

* Source: Korea Power Exchange



(Unit: USD/ton)

(Unit: KRW/KW)

4Q, 2018 Outlook



- In spite of regular maintenance in the region, stable supply and price depreciation is expected due to the slowing real demand.
- The price is likely to be volatile depending on downstream demand but limited uptrend potential is predicted.

Synthetic Rubbers

- Minimization of inventory of tire makers and wait-and see attitude will be continued Rubbers due to a weak main raw material price BD.
- For Non-tire makers, the price is predicted to be weak due to slow demand during the low season.

SM

- Stable supply is predicted due to deep-sea cargo and high stock level of SM makers.
- Price is expected to be weak resulting from the stagnation of downstream demand.

• The demand is expected to be weak due to market uncertainty resulting from US-China trade war and slow demand from China.

• The price is predicted to be weak due to slow demand and weak raw material(SM, BD) price.

Synthetic Resins

Income Statement

(Unit: KRW bn)

| | | | | Rate of change | | | | |
|-------------------------------------|----------------|---------|---------------|----------------|----------------|--------|----------------|--|
| | 3Q,'18 | 2Q,'18 | 3Q,'17 | Qc |)Q | YoY | | |
| | 34 , 10 | 29, 10 | 24, 10 04, 17 | | Rate of change | Amount | Rate of change | |
| Sales | 1,450.6 | 1,441.8 | 1,205.1 | 8.8 | 0.6% | 245.5 | 20.4% | |
| Operating Income | 151.0 | 153.5 | 57.7 | -2.5 | -1.6% | 93.3 | 161.7% | |
| (Operating Margin) | 10.4% | 10.6% | 4.8% | -0.2%p | _ | 5.6%p | _ | |
| Net Interest Expense | 12.4 | 23.8 | 15.9 | -11.4 | -47.9% | -3.5 | -22.0% | |
| Equity Income/Losses on Investments | 25.7 | 41.2 | 37.7 | -15.5 | -37.6% | -12.0 | -31.8% | |
| Income before Income Taxes | 162.4 | 181.1 | 78.1 | -18.7 | -10.3% | 84.3 | 107.9% | |
| (Ordinary Income Margin) | 11.2% | 12.6% | 6.5% | -1.4%p | _ | 4.7%p | _ | |
| Net Income | 122.4 | 175.3 | 56.5 | -52.9 | -30.2% | 65.9 | 116.6% | |
| (Net Income Margin) | 8.4% | 12.2% | 4.7% | −3.7%p | - | 3.7%p | _ | |

[✓] Net Income is based on Controlling Interests.

Balance Sheet

(Unit: KRW bn)

| | 20.710 | 00.10 | 20 '17 | Rate of | change |
|--------------------------------------|---------|---------|---------|---------|--------|
| | 3Q,'18 | 2Q,'18 | 3Q,'17 | QoQ | YoY |
| Current Assets | 1,696.7 | 1,483.9 | 1,452.3 | 212.8 | 244.0 |
| - Cash and Cash Equivalents | 274.0 | 163.6 | 366.8 | 110.4 | -92.8 |
| Non-current Assets | 3,256.2 | 3,219.8 | 3,283.1 | 36.4 | -26.9 |
| Total Assets | 4,952.9 | 4,703.7 | 4,735.4 | 249.2 | 217.5 |
| Current Liabilities | 2,095.1 | 1,993.8 | 2,065.3 | 101.3 | 29.8 |
| Non-current Liabilities | 555.7 | 525.2 | 773.0 | 30.5 | -217.3 |
| ■ Interest bearing Liabilities | 1,618.0 | 1,619.7 | 2,005.6 | -1.7 | -387.6 |
| - Short-term Debts | 1,225.9 | 1,238.7 | 1,373.5 | -12.8 | -147.6 |
| - Long-term Debts | 392.1 | 381.0 | 632.1 | 11.1 | -240.0 |
| ■ Non-interest bearing Liabilities | 1,032.8 | 899.3 | 832.7 | 133.5 | 200.1 |
| Total Liabilities | 2,650.8 | 2,519.0 | 2,838.3 | 131.8 | -187.5 |
| Common & Preferred Stock | 167.5 | 167.5 | 167.5 | - | - |
| Total Shareholders' Equity | 2,302.1 | 2,184.7 | 1,897.1 | 117.4 | 405.0 |
| Net Debt to Asset Ratio | 27.1% | 31.0% | 34.6% | -3.8% | -7.5% |
| Long-term Debts to Total Debts Ratio | 24.2% | 23.5% | 31.5% | 0.7% | -7.3% |
| Current Ratio | 81.0% | 74.4% | 70.3% | 6.6% | 10.7% |
| Debt to Equity Ratio | 115.1% | 115.3% | 149.6% | -0.2% | -34.5% |

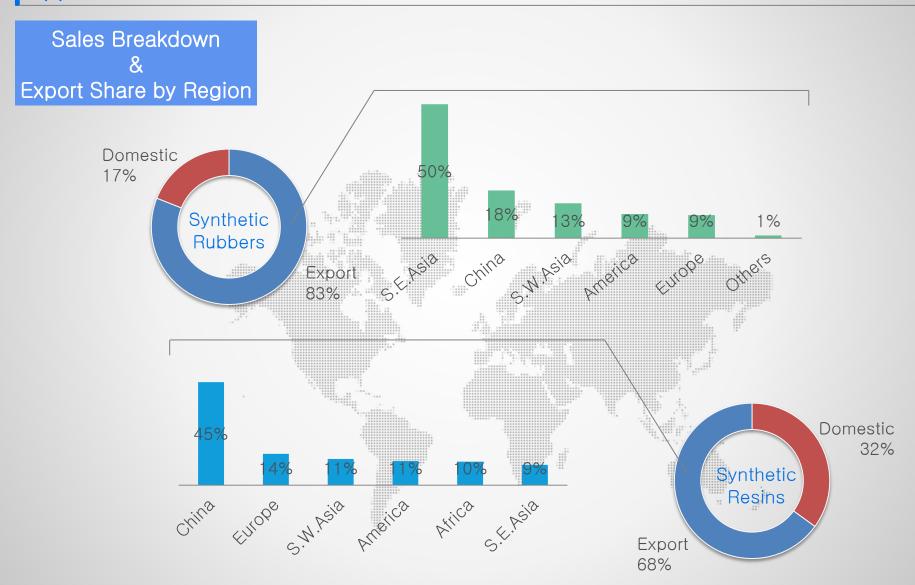
Production Capacity (KKPC)

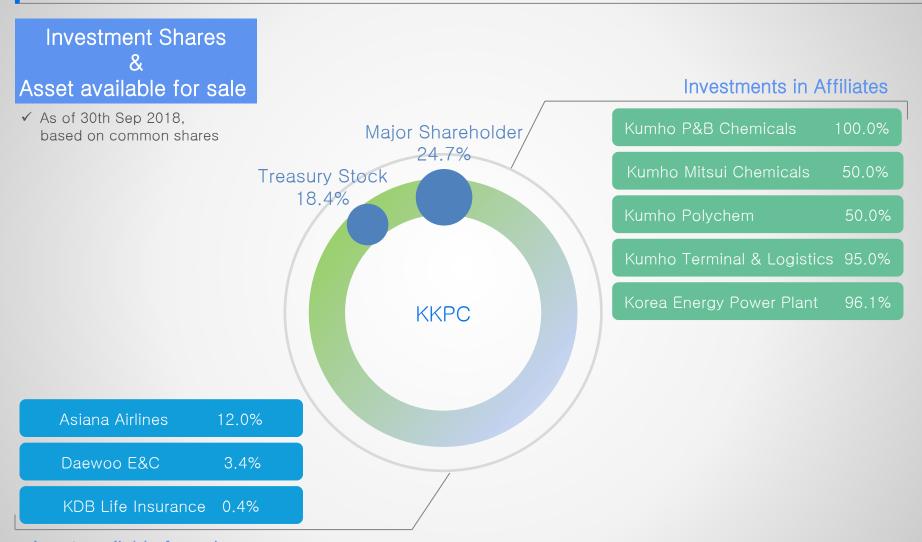
| | Product | | Capa. | | Unit | Note |
|------------------------|--------------|-----|---------|----|------|---|
| Synthetic Rubbers | SBR | | 384,0 | 00 | | |
| | BR | HBR | 290,0 | 00 | | |
| | | LBR | 45,0 | 00 | | |
| | S-SBR | | 63,0 | 00 | MT/Y | |
| | NdBR | | 60,0 | 00 | | |
| | NBR | | 87,0 | 00 | | |
| | HSR | | 10,0 | 00 | | |
| | NB Latex | | 400,0 | 00 | | |
| | SB Latex | | 82,8 | 00 | | |
| | SBS | | 80,0 | 00 | | |
| | Total | | 1,501,8 | 00 | | |
| Synthetic Resins | PS | | 233,0 | 00 | MT/Y | |
| | ABS | | 250,0 | 00 | | |
| | SAN/Pwd. | | 161,0 | 00 | | Completion of Expansion: 16,000MT/Y, 1H, 18 |
| | EPS | | 80,0 | 00 | | |
| | PPG | | 141,0 | 00 | | |
| | Total | | 865,0 | 00 | | |
| Specialty Chemicals | Antioxidants | | 83,5 | 00 | MT/Y | |
| Energy | Steam | | 1,7 | 10 | T/H | |
| | Electricity | | 3 | 00 | MWH | |
| BD | Ulsan | | 90,0 | 00 | | |
| | Yeosu | | 147,0 | 00 | MT/Y | |
| | Total | | 237,0 | 00 | | |

Production Capacity (Affiliates)

| | Product | Capa. | Unit | Note |
|------------------------------|-------------|-----------|------|---|
| | Phenol | 680,000 | | |
| Kumho P&B Chemicals | Acetone | 420,000 | | |
| | MIBK | 60,000 | | |
| | Cumene | 900,000 | MT/Y | |
| | BPA | 450,000 | | |
| | Epoxy Resin | 152,000 | | Completion of Expansion: 17,000MT/Y, 1Q,'18 |
| | Total | 2,662,000 | | |
| Kumho Mitsui Chemicals | MDI | 350,000 | | Completion of Expansion: 100,000MT/Y, 2H,'17 60,000MT/Y, 2H '19 |
| | Aniline | 20,000 | MT/Y | |
| | Total | 370,000 | | |
| Kumho Polychem | EP(D)M | 220,000 | MT/Y | |
| | TPV/KEPA | 12,000 | | Completion of Expansion: TPV 5,000MT/Y, 4Q,'17 |
| | Total | 232,000 | | |

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Asset available for sale

Q&A