



Facts About PPG

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PPG

PPG INDUSTRIES

PPG Industries is a global supplier of coatings, glass, fiber glass and chemicals. The company has about 50 production facilities in the United States and about 108 worldwide, including subsidiaries, joint ventures and equity affiliates. The company employs about 31,800 people worldwide. As a group, employees and retirees are the company's largest shareholder, owning about 11 percent of PPG's outstanding shares.

PPG is the world's largest producer of transportation coatings and a leading maker of industrial and packaging coatings, aircraft transparencies, flat and fabricated glass, continuous strand fiber glass, chlor-alkali and specialty chemicals, and architectural coatings.

PPG's coatings businesses manufacture automotive and aerospace coatings; automotive refinishes; adhesives and sealants; factory-applied coatings for appliances, building components and a broad range of industrial applications; packaging coatings; and decorative, maintenance and other architectural coatings.

The company's glass businesses supply automotive and other transportation original equipment and replacement windshields and windows; glass for commercial and residential construction and remodeling; and products for industrial, mirror and furniture applications. Fiber glass operations produce continuous strand fibers for reinforced plastics, stampable reinforced thermoplastic sheet, electronic circuit boards and many other applications.

PPG's chemicals businesses manufacture a variety of industrial and specialty products, including chlorine, caustic soda, chlorinated solvents, vinyl chloride monomer, amorphous precipitated silicas, optical monomers and lenses, pharmaceutical intermediates, fine chemicals and calcium hypochlorite.

The company has long been a technological leader. PPG has introduced many product and process innovations, including automotive safety glass, insurance claims management, energy-saving processes for producing chlorine and

caustic soda, automotive and industrial electrodeposition systems and coatings, glass fiber reinforcements for high strength plastics, energy-conserving architectural glasses, self-cleaning glass, flexible automotive finishes and automotive powder clear coats.

Other innovations include lightweight, impact-resistant optical plastics and Transitions light-activated variable-tint plastic lenses for eyewear, improvements in the float process for flat glass manufacture, coatings that cure instantly with ultraviolet light or electron beams, and environmentally friendly water-based high-solids and powder coatings for vehicle, industrial and other applications.

PPG aims to lead each of its major markets while generating superior, consistent financial performance. The company's continuing emphasis on development of breakthrough products and processes, investment in highly productive manufacturing facilities and profitable global expansion combine to provide customers with the best services and products of highest quality.

PPG's Blueprint also asserts a continuous commitment to making its operations – from manufacturing to administration to marketing – cost-efficiency leaders, and to moving in new but related directions through internally developed technology, as well as acquisitions and partnerships. A commitment to stewardship and continual improvement of safety, the environment and waste prevention are PPG principles.

The company embraces the Quality Process to fully meet customer requirements and do things right the first time, every time.

PPG is dedicated to continued leadership in its businesses and to fulfillment of its obligations to customers, shareholders, employees and the communities, states and nations in which it operates.

Cover: *Everywhere you look, you see PPG.* Whether it's in the glass and coatings used in commercial and military aircraft, fiber glass reinforcements that give strength to all kinds of boats, variable-tint Transitions lenses, or glass and coatings used in professional sports stadiums, PPG-produced materials are vital components in thousands of products around the world.

2004 REVIEW

Net Sales	\$ 9.5 billion
Net Income	\$ 683 million
Earnings per Share ⁽¹⁾	\$ 3.95
Average Shares Outstanding ⁽¹⁾	173.0 million
Employees	31,800
Capital Spending	\$ 311 million
Research and Development	\$ 321 million

Assets, Sales & Earnings By Business Segment	Assets (millions)	Sales (millions)	Operating Income (loss) (millions)
Coatings	\$ 4,587	\$ 5,275	\$ 777
Glass	1,569	2,204	169
Chemicals	1,133	2,034	291
Corporate	1,643 ⁽²⁾	—	(44)
Total	\$ 8,932	\$ 9,513	\$ 1,193
Asbestos settlement – net			(32)
Interest – net			(78)
Compensation cost associated with stock options			(20)
Income before income taxes, minority interest and cumulative effect of accounting change			\$1,063

⁽¹⁾ Assumes dilution

⁽²⁾ Principally cash and cash equivalents and deferred tax assets

Assets, Sales & Earnings By Geographic Segment	Assets (millions)	Sales (millions)	Operating Income (loss) (millions)
United States	\$ 5,399	\$ 6,029	\$ 847
Europe	2,145	2,050	210
Canada	429	623	57
Other	959	811	123
Corporate	*	—	(44)
Total	\$ 8,932	\$ 9,513	\$ 1,193
Asbestos settlement – net			(32)
Interest – net			(78)
Compensation cost associated with stock options			(20)
Income before income taxes, minority interest and cumulative effect of accounting change			\$1,063

* Corporate assets are shown within the appropriate geographic segment.

Major Markets Served (Approximate Percent of Sales)

New Vehicles and Aircraft	30%
Aftermarket, Maintenance and Service	30%
Consumer	15%
Industrial	15%
New Construction	10%

MAJOR MARKETS BY PRODUCTS

COATINGS

Transportation original equipment and aftermarket, commercial and residential construction and remodeling, and maintenance, appliance, packaging and industrial markets.

GLASS

Motor vehicle original equipment and aftermarket, commercial and residential construction, industrial markets and insurance claims management. Includes fiber glass used for transportation, construction, electronics, recreational and various industrial markets.

CHEMICALS

Chemical and pharmaceutical manufacturing, optical monomers, Transitions photochromic ophthalmic plastic eyewear, soaps and detergents, pulp and paper, water treatment and industrial markets.

HISTORY



PPG Industries was founded in 1883 as the Pittsburgh Plate Glass Co. The company's first plant, at Creighton, Pa., near Pittsburgh, was the first commercially successful plate glass factory in the United States. PPG expanded flat glass production operations rapidly during the next decade and a half through new facilities and acquisitions.

Diversification began with construction of a plant in Ohio in 1899 to ensure a reliable supply of alkali for glassmaking – the first of PPG's chemicals businesses – and the 1900 acquisition of a paint company that was the foundation of its coatings

businesses. In 1902, PPG became one of the first American manufacturing firms to establish European operations.

Glass and paint provided continued prosperity to the company in the 1920s, as the automotive industry and construction of skyscrapers transformed and modernized the American scene.

During this period, PPG also increased its commitment to development of technology for improved production efficiency and high product quality and versatility. One early achievement in 1924 was the first straight-line conveyor method of glass manufacture, which advanced the glass production process much as the assembly line transformed the automotive industry. In the decades since, PPG has continued to develop new glass and paint products to meet more demanding market needs, and to expand its array of chemical products.

In 1952, recognizing the potential of another type of glass product, the company established its fiber glass business. One of the "miracle" fibers created by laboratory researchers, fiber glass continues to achieve expanding use in a variety of products, and PPG has been at the forefront of product and process development.

As a result of its diversification, growth and rapidly developing global presence, as well as the passing of the old plate process for making glass, the company changed its name to PPG Industries in 1968. In the ensuing decades, as many of its basic commodity product markets matured in North America and Europe, the company gave new emphasis to development of specialty, value-added products, process efficiency and accelerated global expansion.

Today PPG is a leader in its markets, streamlined and efficient, and on the leading edge of new technologies to provide a growth-focused future worldwide.

MANUFACTURING LOCATIONS

Includes subsidiaries, joint ventures and minority affiliates. PPG's percentage of equity in those not wholly owned is shown in parentheses.

UNITED STATES



Coatings

Adrian, Mich.
Arvada, Colo.
Batavia, Ill.
Baton Rouge, La.
Circleville, Ohio
Cleveland, Ohio
Delaware, Ohio
Dover, Del.
East Point, Ga.
Euclid, Ohio
Glendale, Calif.
Gloucester City, N.J.

Greensboro, N.C.
Houston, Texas
Huntsville, Ala.
Kenosha, Wis.
Louisville, Ky.
Mojave, Calif.
Oak Creek, Wis.
Springdale, Pa.
Strongsville, Ohio
Waller, Texas
Watertown, Conn.

Glass

Berea, Ky.
Burlington, Iowa
Carlisle, Pa.
Creighton, Pa.
Crestline, Ohio
Evansville, Ind.
Ewart, Mich.
Fresno, Calif.

Meadville, Pa.
Mount Zion, Ill.
Newark, Del.
O'Fallon, Mo.
Salem, Ore.
Talladega, Ala.
Tipton, Pa.
Wichita Falls, Texas

Belletech Corp. (40%)

Bellefontaine, Ohio

LYNX Services, LLC.

Ft. Myers, Fla.
Paducah, Ky.
Trevose, Pa.

Fiber Glass

Chester, S.C.
Lexington, N.C.
Shelby, N.C.

AZDEL, Inc. (50%)

Forest, Va.
Shelby, N.C.

Chemicals

Barberton, Ohio
Lake Charles, La.

La Porte, Texas
Natrium, W.Va.

RS Cogen (50%)

Lake Charles, La.

PHH Monomers (50%)

Lake Charles, La.

Transitions Optical (51%)

Pinellas Park, Fla.

ARGENTINA

Coatings

PPG Automotive Products
Pilar



AUSTRALIA

Coatings

PPG Industries Australia
Clayton, Vic.



Chemicals

Transitions Optical (51%)
Lonsdale, Vic.

BRAZIL

Coatings

PPG Industrial do Brasil
Cajamar
Sumaré



Chemicals

Transitions Optical (51%)
Sumaré

CANADA

Coatings

PPG Canada, Inc.
Mississauga, Ont.
Winnipeg, Man.



Chemicals

PPG Canada, Inc.
Beauharnois, Que.

Chemfil Canada (50%)
Windsor, Ont.

Glass

PPG Canada, Inc.
Alliston, Ont.
Cambridge, Ont.
Hawkesbury, Ont.
Kitchener, Ont.
Oshawa, Ont.
Owen Sound, Ont.

CHINA

Coatings

PPG Coatings (Tianjin) Co. (70%)
Tianjin



PPG Packaging Coatings (Suzhou) (90%)
Suzhou

Fiber Glass

PPG Co. (50%)
Kunshan

ENGLAND

Coatings

PPG Industries (UK)
Shildon
Stowmarket

Fiber Glass

PPG Industries (UK)
Wigan



FRANCE

Coatings

PPG Industries France
Saultain
**Gonfreville Coatings/
PRC-DeSoto**
Gonfreville

Chemicals

PPG Sipsy
Avrillé
Plelan le Grand



GERMANY

Coatings

PPG Industries Lacke
Wuppertal

PPG Industries Lackfabrik
Weingarten

HOBA Lacke und Farben
Bodelshausen



INDIA

Coatings

Asian PPG (50%)
Mumbai



IRELAND

Chemicals

Transitions Optical (51%)
Tuam



ITALY

Coatings

Ampaspace (80%)
Casaletto Vaprio

Bellaria
Felizzano

PPG Industries Italia
Caivano
Milan
Quattordio



MALAYSIA

Coatings

PPG Coatings Malaysia
Selangor Darul Ehsan



MEXICO

Coatings

PPG Industries de Mexico
San Juan del Rio

Chemicals

PPG Industries de Mexico
Altamira



Glass

Saltillo

Cristal Laminado o Templado (50%)

Tepeji del Rio

NETHERLANDS

Coatings

PPG Coatings
Tiel

Chemicals

PPG Industries
Chemicals
Delfzijl



Fiber Glass

PPG Industries Fiber Glass
Hoogezand

AZDEL (50%)

Bergen op Zoom

PHILIPPINES

Chemicals

Transitions Optical (51%)
Laguna



SOUTH KOREA

Coatings

DongJu Industrial Co. (50%) **PPG Daihan Packaging**
Chon Ahn **Coatings (50%)**
Busan Anyang City



SPAIN

Coatings

PPG Iberica
Rubi
Valencia
Valladolid



TAIWAN

Chemicals

Taiwan Chlorine
Industries (60%)
Kaohsiung

Fiber Glass

PFG Fiber Glass (50%)
Chia Yi



THAILAND

Coatings

PPG Coatings Thailand
Bangsaothong



TURKEY

Coatings

PPG Industries Kimya
Sanayi ve Ticaret
Bursa



VENEZUELA

Fiber Glass

VFG-Sudamtex (49%)
Barcelona



PRINCIPAL RESEARCH & DEVELOPMENT FACILITIES

Allison Park, Pa., Coatings
Harmar Twp., Pa., Glass
Hoogezand, Netherlands, Fiber Glass
Lexington, N.C., Fiber Glass
Monroeville, Pa., Chemicals
Shelby, N.C., Fiber Glass
Springdale, Pa., Coatings