

Polynt in your World: 60-years history of partnership

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# A growing specialty chemical industry

We believe in research, innovation and development to provide natural solutions that respect the ecosystem's equilibrium, while offering efficient alternatives to the consumption of our precious natural resources.

Since 1955 we have been active in the production, sale, research and development of organic anhydrides and their derivatives.

Our presence in the major chemical intermediates sector allows us to play a central role in activities ranging from petroleum refining to the production, sale and market distribution of finished products.

## Integrated Business Model

Polynt Group internally manages the entire production-distribution chain through these operations:

- · Research and development
- · Production planning and sourcing of raw materials
- Production process, quality control and logistics
- Storage
- Sales and after-sales assistance with finished goods

## Passion, expertise, technology and innovation

Our key products are:

- Anhydrides: Phthalic, Maleic and Trimellitic
- Specialties: GPP, SPP, Special Anhydrides, Special Esters, Catalysts and Acids
- · Composites: UPR, VE, SMC, BMC, Gel Coats and Bonding Pastes
- Coating Resins

## A Global Company: Innovation & Quality

Polynt Group's global footprint spans four continents with manufacturing and commercial facilities, allowing us to provide our customers with innovative and sustainable solutions.

Throughout our production chain, Polynt Group is a pioneer in responsible innovation: we combine design, quality and progress, while protecting the environment, improving the process technology.

## Polynt Group in the World



# **Our Production Sites**

#### **AMERICAS**

BRAZIL Reichhold do Brasil LTDA. Mogi das Cruzes

#### CANADA

<u>Polynt Composites Canada, Inc.</u> Brampton - Cape Sable Island -Drummondville - Winnipeg

#### USA

Polynt Composites USA Inc. and Reichhold LLC 2

Azusa - Carpentersville - Chatham

- Durham Ennis Forest Park - Houston - Jacksonville - Marshall
- Morris North Kansas City
- Orlando Pensacola Sandusky
- Valley Park

#### MEXICO

<u>Reichhold Quimica de Mexio, S.A. de</u> <u>C.V.</u> Atlacomulco

#### EUROPE FRANCE

Polynt Composites France S.A. Drocourt

GERMANY

Polynt Composites Germany GmbH Miehlen

#### ITALY

<u>Polynt S.p.A. and Reichhold S.r.I. (ITA)</u> Brembate Sopra - Cavaglià - Ravenna - San Giovanni Valdarno - San Polo di Torrile - Scanzorosciate

NORWAY

<u>Polynt Composites Norway AS (NOR)</u> Sandefjord <u>Reichhold AS (NOR)</u> Fredrikstad

#### POLAND

Polynt Composites Poland Sp. z o.o. Niepołomice

#### SPAIN

Polynt Composites Spain, S.L.U. Miranda de Ebro

**UK** <u>Polynt UK Ltd.</u> Staffordshire (Leek) <u>Polynt Composites UK Ltd.</u> Stallingborough <u>Reichhold UK Limited</u> Mitcham

#### **ASIA & OCEANIA**

CHINA <u>Polynt Chemical (Changzhou) Co., Ltd.</u> Changzhou <u>Reichhold Polymers (Tianjin) LTD.</u> TianJin

#### INDIA

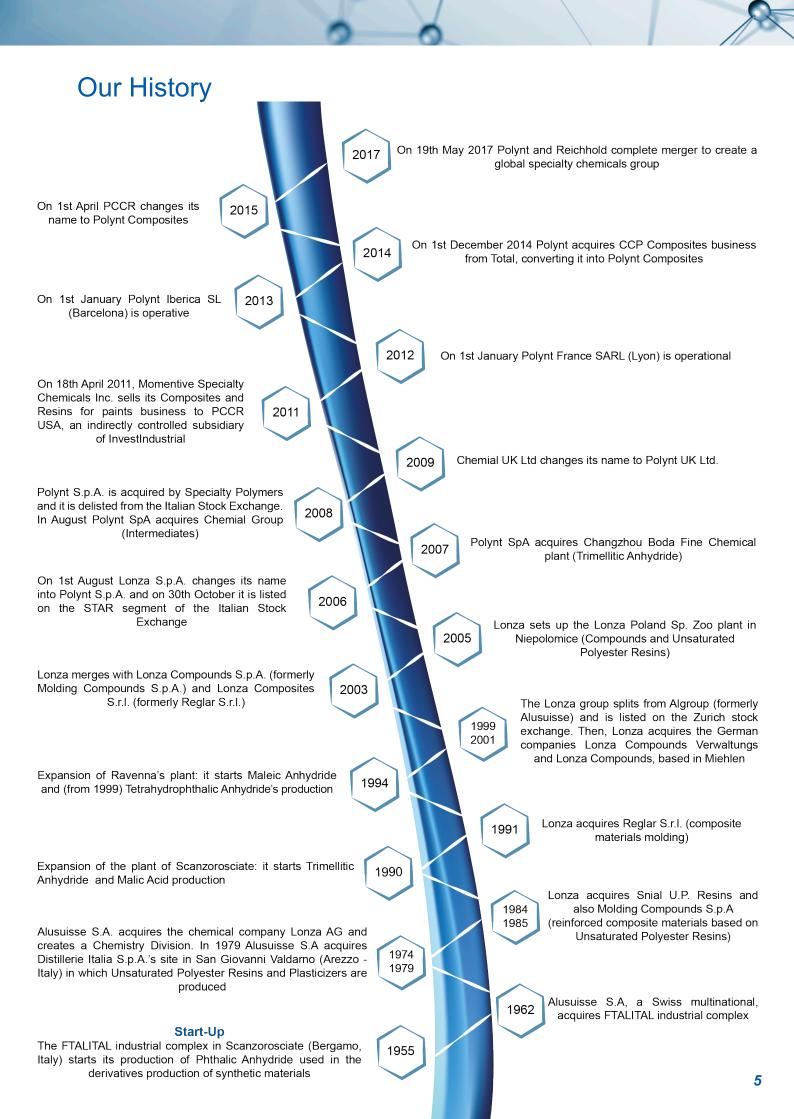
<u>Reichhold India Private Limited</u> Pune

#### KOREA

<u>Polynt Composites Korea Co., Ltd.</u> Jeollabuk-do

#### MALAYSIA

<u>Polynt Composites Malaysia Sdn. Bhd.</u> Pasir Gudang



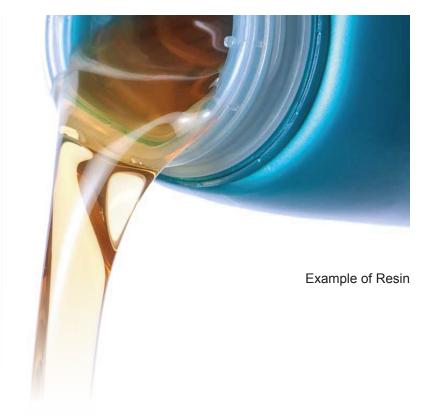
# Our Product Range

# Composites

UP	Resins & VE Resins	6
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# **Unsaturated Polyester Resins**

Biobased	PRODUCT FAMILY NAME	APPLICATIONS	
Resins	ENVIROGUARD <sup>®</sup> , ENVIROLITE <sup>®</sup>		
Polyester	XYCON®		
Hybrid Resins	PROCORE®	Abrasives, aerospace, agriculture, anti-corrosion, automotive and truck	
Styrene-Free	ENCORE PRIME <sup>®</sup> , POLYLITE HS™	parts, building and construction,	
	Orthophthalic Resins ARMORCAST <sup>®</sup> , DISTITRON <sup>®</sup> , EASYLAM <sup>®</sup> (Low Styrene Emissions), NORSODYNE <sup>®</sup> , POLYLITE <sup>®</sup> , STYPOL <sup>®</sup> , 71X-XXXX, 77X-XXXX	buttons, coatings, composites, corrugated sheets, electrical equipment, furniture, gel coats, household, industrial equipment and structures, injection, laminates,	
Unsaturated	saturated Isophthalic Resins DISTITRON®, NORSODYNE®, POLYLITE® STYPOL®, 73X-XXXX, 74X-XXX	marine, pipes & tanks (anti-corrosion, standard, cured-in-place-pipe), profiles and gratings, public transport, putties	
Polyester Resins	DCPD Resins (Dicyclopentadiene) DISTITRON®, ENVIROLAM®, ENYDYNE®, POLYLITE®, POLYDYNE®, STYPOL®, 73X-XXXX, 77X-XXXX	& mastics, railway sector, sandwich panel, sanitary, sports & leisure, stickers, swimming pools, synthetic marble, tanks, translucent sheets	
	Special Resins DION®, DISTITRON®, ENVIROGUARD®, ENYDYNE®, HYDREX®, NORSODYNE®, 73X-XXXX, 75X-XXXX, 76X-XXXX, 77X-XXXX, 79X-XXXX	(roofing and cladding), water containers, renewable energy	



# Vinyl Ester Resins

Epoxy VE	PRODUCT FAMILY NAME	APPLICATIONS	
Hybrid	XYCON <sup>®</sup> VE, DION <sup>®</sup>	Abrasives, aerospace, agriculture,	
Resins	Vinyl Ester Resin Blend ARMORSTAR®, HYDREX®	anti-corrosion, automotive and truck parts, building and construction,	
Vinyl Ester	DION <sup>®</sup> , DISTITRON <sup>®</sup> VE, EPOVIA <sup>®</sup> , EPOVIA <sup>®</sup> OPTIMUM, NUPOL <sup>®</sup> , 75X-XXXX, 78X-XXXX	buttons, coatings, composites, corrugated sheets, electrical equipment, furniture, gel coats, boundbald industrial equipment and	
Vinyl Low Styrene Content	DION <sup>®</sup> , DISTITRON <sup>®</sup> EF Series, EPOVIA <sup>®</sup>	household, industrial equipment and structures, injection, laminates, marine, pipes & tanks (anti-corrosion, standard, cured-in-place-pipe), profiles	
Styrene-Free Epoxy VE	ENCORE PRIME <sup>®</sup> , POLYLITE <sup>®</sup> HS, STYROGUARD <sup>®</sup> II	and gratings, public transport, putties & mastics, railway sector, sandwich panel, sanitary, sports & leisure,	
Tackifier	NUTACK®	stickers, swimming pools, synthetic marble, tanks, translucent sheets (roofing and cladding), water containers, renewable energy, spar caps.	

# Compounds

PRODUCT FAMILY NAME	APPLICATIONS	
<b>BMC</b> (Bulk Moulding Compounds) <b>SMC</b> (Sheet Moulding Compounds) Polyester, vinylester and epoxy thermosetting material reinforced with glass fiber	Automotive, trucks, railways, tractors, electric and electronic, household, building, aircraft, engineering, industrial, food contact, sport and leisure, panels	
<b>Polynt SMCarbon</b> <sup>®</sup> - epoxy and vinylester SMC reinforced with carbon fiber	Automotive, aircraft, industrial, sport and leisure, engineering, structural applications	
<b>Polynt UDCarbon</b> <sup>®</sup> - epoxy and vinylester composite reinforced with unidirectional tape carbon fiber	Structural applications, automotive, industrial	
<b>Polynt RECarbon<sup>®</sup></b> - epoxy and vinylester composites reinforced with recycled carbon fiber fleece	Semi-structural materials, veil for optimized surfaces	
<b>Polynt BMCarbon</b> <sup>®</sup> - epoxy and vinylester BMC reinforced with short chopped carbon fiber	Sport and leisure, industrial	
<b>Polynt TXTCarbon</b> <sup>®</sup> - epoxy and vinylester composite material reinforced with fabric carbon fiber	Automotive, aircraft, industrial, sport and leisure, engineering, structural applications	

For further information please contact us



A carbon fiber seat molded using Polynt products

# **Gel Coats**

PRODUCT FAMILY NAME	APPLICATIONS
ARMORCLEAR <sup>™</sup> , ARMORCOTE <sup>®</sup> , ARMORFLEX <sup>™</sup> ,	Enamels, fire-retardant, industrial application (heat,
ARMORGUARD <sup>®</sup> , ARMORHP <sup>®</sup> , ARMORPLUS <sup>®</sup> , AR-	corrosion & chemical resistance parts), infrastructure
MORPRO <sup>®</sup> , BATHCOTE <sup>®</sup> , BUFFBACK <sup>®</sup> , FIREBLOCK <sup>™</sup> ,	construction (cisterns, sanitary, synthetic marble), leisure
FUSION <sup>™</sup> , HIGLOSS TR <sup>®</sup> , IMEDGE <sup>™</sup> , NORPOL <sup>™</sup> ,	boats & marine, marble and casting, pigment, renewable
PATCHAID <sup>™</sup> , POLYCOR <sup>™</sup> , POLYGEL <sup>®</sup> , SHIMMER <sup>®</sup> ,	energies (wind energy), sanitary and mould manufacture,
STYPOL <sup>®</sup> , QUICKMIX <sup>™</sup> , QUICKMIX & POLYCOLOR	spray patching, swimming pools, tanks, tooling,
SERVICE <sup>™</sup>	transportations (buses, tractors, trucks, train parts)

For further information please contact us



Example of Gel Coat

# Low Profile, Low Shrink Additives & Tooling Systems

Low Profile &	PRODUCT FAMILY NAME	APPLICATIONS
Low Shrink Additives	NORPOL <sup>™</sup> , NORSOLOOK <sup>™</sup> , STYPOL <sup>®</sup>	Automotive and truck parts, profiles
Tooling Systems	NORPOL <sup>™</sup> , OPTIMOLD <sup>™</sup> , OPTIPLUS <sup>™</sup> , POLYLITE <sup>™</sup> , POLYNT <sup>™</sup>	Tooling

For further information please contact us



An example of Low Profile & Low Shrink Additives application

## **Bonding Pastes**

PRODUCT FAMILY NAME	APPLICATIONS
GRAVICEL™, GRAVICOL™, GRAVIPLAST™, NORPOL™	Industrial applications, transportation (automotive and truck parts), marine and wind energy (wind turbine)

For further information please contact us



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# Catalysts

PRODUCT FAMILY NAME	APPLICATIONS
NORPOL®	Initiators to ensure consistent cure of all composite resins and gel coats across various manufacturing process technologies

For further information please contact us

# **Cleaning Agents**

PRODUCT FAMILY NAME	APPLICATIONS
Di-Lynt	
THERMACLEAN®, MARBLEWASH®, WIPE-BRIGHT®, UNIWIPE®, AQUAWASH®, REPLACETONE™	Industrial tooling & cleaning

For further information please contact us

# Our Product Range

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Polynt Group is renowned for its superior quality and extensive range of products including - but not limited to - alkyds, polyesters, urethanes, epoxy resins and curing agents, acrylics and powder coating resins.

Polynt Group offers one of the most comprehensive ranges of resin technology available in the market today.

We strive for excellence and are committed to providing unsurpassed customer service to ensure that we exceed the needs of our customers and end-users.

	PRODUCT FAMILIES	APPLICATIONS
<b>ACRYLAMAC®</b>	Styrenated & Solution Acrylics, Acrylic Polyols	
	Powder Curing Agents	
	Modified Alkyds & Copolymers	
<b>AQUAMAC<sup>®</sup></b>	Latex	
<b>ARCHEMIS®</b>	Long Oil Alkyds	
	Non-Isocyanate 2K Systems	
AROLON®	Styrenated & Solution Acrylics, Acrylic Polyols	
AROPLAZ®	Polyesters	
BECKOSOL®	Solvent-borne Alkyds	Aerospace,
BECKOSOL AQ®	Alkyd Emulsions	architectural
BECKOSOL AQUA®*	Alkyd Emulsions	interior and exterior,
CARBAMAC®	Solvent-borne Oil Modified Urethanes & Uralkyds	automotive, general metals,
CHEMACOIL®	Vinyl Oxazoline Esters	industrial maintenance,
DURAMAC®	Conventional Alkyds	industrial wood,
EPOTUF®	Epoxy Resins & Curing Agents	machinery & equipment, marine,
FINE-CLAD®	Powder Coating Resins	metal furniture,
FINE-TONE <sup>®</sup>	Digital Printing Ink Resins	stains,
HYDREAU®	Polyester Dispersions	transportation,
KELSOL®	Waterborne & Water-Reducible Alkyds	varnishes
MACOPOL®	Copolymer Resins	
POLYMAC®	Liquid & Powder Polyesters	
RESAFEN®	Phenolics	
RESANITE®*	Rosin Phenolic Ester Resins for Offset Inks	
REZIMAC®	Modified Alkyds & Epoxy Esters	
SUPER RESANITE® *	Alkyl Phenolic Resins	
SYNTHEMUL®	Non-Styrenated & Vinyl Acrylics	
<b>UROTUF®</b>	Urethanes	

\* Brazil Only



# **Our Product Range**

# Intermediates &

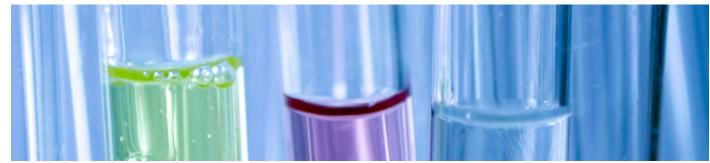
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## Anhydrides and Acids

	PRODUCT FAMILY NAME	APPLICATIONS				
Anhydrides	Phthalic Anhydride, Maleic Anhydride, Trimellitic Anhydride, Tetrahydrophthalic Anhydride	Adhesives, agriculture, animal feed, building and construction, chemical industry, coatings, consumer goods, cosmetics, crop protection, detergents, electronic and electrical, food and				
Acids	Malic Acid and Fumaric Acid	beverage, flavors and fragrances, household, industrial sector, intermediates for chemical synthesis, inks and pigments, leather treatment, lubricants, pharmaceutical, paper industry, polymers and plastics, solvents, synthetic fibers, water treatment				



# Catalysts

PRODUCT FAMILY NAME	APPLICATIONS				
POLYCAT ALMA, POLYCAT MAC4, POLYCAT MAC6	Oxidation Catalysts for Maleic Anhydride from n-butane (fluid and fix bed technology) and benzene				
POLYCAT PA	Oxidation Catalysts for Phthalic Anhydride				
POLYCAT PMDA-25	Oxidation Catalysts for Pyromellitic Anhydride				
СМС	Custom Manufactured Catalysts				

For further information please contact us



# **Special Anhydrides**

PRODUCT FAMILY NAME	APPLICATIONS				
MTHPA (Methyltetrahydrophthalic Anhydride)					
METH (Methylnadic Anhydride)					
Special Hydrogenated Anhydrides / Cycloaliphatic: HHPA (Hexahydrophthalic Anhydride); MHHPA (Methylhexahydrophthalic Anhydride) Special Grades; Anhydride 70/30; Succinic Anhydride	Aerospace, automotive, building and construction, chemical industry, coatings, electric and electronic, intermediates for chemical synthesis, marine, polymers and plastics, renewable energy				
Pre-accelerated and Modified Special Anhydride: MTHPA (Methyltetrahydrophthalic Anhydride) Special Grades					



# **Special Esters**

PRODUCT FAMILY NAME	APPLICATIONS					
Glycerol Esters (Triacetin, Diacetin, Priacetin, Tributyrin)						
Phthalates - Low molecular weight (DEP, DMP)						
Acetates						
Acetates of Glycol Ethers	Adhesives, agriculture, automotive, building and					
Maleates and Fumarates	construction, chemical industry, coatings, cosmetics, detergents, electric and electronic,					
Citrates	food and beverage, foundries, flavors and					
Sebacates	fragrances, intermediates for chemical synthesis, inks and pigments, marine, leisure and clothing,					
Benzoates	lubricants, medical and pharmaceutical, polymers and plastics, solvents, synthetic fibers, tobacco					
Succinates						
Esters of Fatty Acids (Oleates and Stearates)	industry, water treatment					
Organometallic Salts						
Trimellitates - Low molecular weight (TMTM)						
Hexahydrophthalates						

For further information please contact us



Two examples of DEP application



## **Plasticizers**

	PRODUCT FAMILY NAME	APPLICATIONS			
General	DEHP Medical Grade - DIPLAST <sup>®</sup> O/MG	Automotive, building			
Purpose Plasticizers	DINP - DIPLAST <sup>®</sup> NS also available as stabilized (ST) grade	and construction, consumer goods, electronic and			
	DPHP - DIPLAST <sup>®</sup> RS also available as stabilized (ST) grade				
	Linear Phthalates: DIPLAST <sup>®</sup> L 9-11, DIPLAST <sup>®</sup> L 11 - also available as stabilized (ST) grade	electrical, food contact materials,			
Special Purpose Plasticizers	<b>Trimellitates:</b> DIPLAST TM - also available as stabilized (ST) grade, DIPLAST TM8, DIPLAST TM8-10/ST, DIPLAST TM10, DIPLAST TM13, DIPLAST TINTM/ST, DIPLAST TM/MG (TOTM Medical Grade)	household, leisure and clothing, lubricants, medical devices,			
	Adipates and Polymeric: DIPLAST® D (DOA), DIPLAST® D/MG (DOA Medical Grade), Polimix®, Uraplast®				

For further information please contact us



## Others

In addition to core products, Polynt Group also supplies products and materials throughout Canada and Australia, allowing our valuable customers to meet their needs with "one-stop shopping" through our experienced, dedicated distributors. These additional product categories are highlighted here:

PRODUCT FAMILY NAME	APPLICATIONS				
Acetone, Corflex 100, Ethyl Acetate, Methyl Ethyl Ketone, Methyl Methacrylate, Styrene Monomer, Toluene, Wax in Styrene	Chemicals and solvents				
Nidaplast, U-Pica Low Density Bulker Mat, Flexokore Balsa Materials	Core materials				
West System, Perfect Gloss Decorative Coating, Rapid Cure Epoxy Kit, Techniglue CA	Epoxy systems				
Wacker, Envirospheres, Q-Cel and Omya	Lightweight and high density fillers				
ERA Polymers	Pouring polyurethane foams & rubbers				
E-Glass; Specialty Reinforcements: ECR, C, AR Glasses	Reinforcements				
Masks, Safety Goggles, Gloves, Barrier Guard Cream, Handwash, Eyewash bottle	Safety & personal protective equipment (PPE)				
Mould Release Systems: Zyvax, Rexco; Surface Finishes: Farecla	Surface technologies				

# Applications





## For a better way of life

Polynt Group continues to deliver a diverse range of products that serve the key sectors of agribusiness, biomedical, construction, electronics, transportation and marine industries.

Our production base is comprised of three sectors: Composites, Intermediates and Specialties. We are an essential contributor in the creation of thousands of objects that help improve the quality of life. Through our personalized design solutions dedicated to satisfying each sector's needs and our industrial clients' requirements, we continue to enjoy a loyal customer base.



		AME	RICAS		EUROPE			ASIA					
CERTIFICATIONS	BRAZIL	CANADA	MEXICO	USA	FRANCE	GER- MANY	ITALY	POLAND	SPAIN	UK	CHINA	INDIA	KOREA
ANSI/MSE 50021				<ul> <li>Image: A start of the start of</li></ul>									
CLEAN INDUSTRY			$\checkmark$										
СТРАТ			<ul> <li>Image: A start of the start of</li></ul>										
EMAS							$\checkmark$						
FAMI-QS							$\checkmark$						
FSSC 22000							$\checkmark$						
HALAL							$\checkmark$						
ISO 9001	$\checkmark$	$\checkmark$	<ul> <li>Image: A start of the start of</li></ul>	$\checkmark$	<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>Image: A start of the start of</li></ul>	$\checkmark$						
ISO 14001				$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$
ISO 50001											$\checkmark$		
KOSHER							$\checkmark$						
OHSAS 18001									$\checkmark$				$\checkmark$
RESPONSIBLE CARE			<ul> <li>Image: A start of the start of</li></ul>										
SAFETY INDUSTRY			$\checkmark$										
SEP				$\checkmark$									

## Responsible Care - Health and Environment: a commitment with 3 objectives

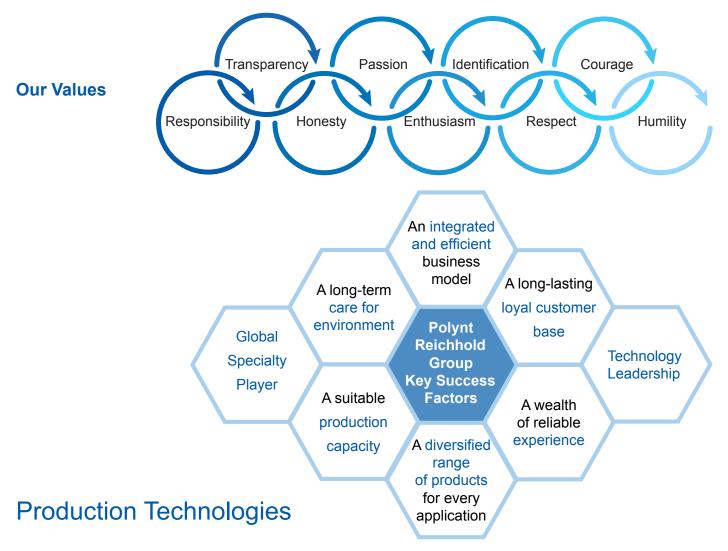
**Commitment to Environmental Improvement -** Awareness of the needs of local communities that host Polynt Group's plants, plus continual reduction of environmental impact.

**Composites help to reduce consumption of Natural Resources -** Development of new products to progressively substitute natural raw materials in the production of objects and technological equipment.

**Product Safety -** Creation of recyclable products to reduce impact on environment and human health.

Polynt Group undertakes **LCA studies** and carefully examines the cradle-to-gate impact of its raw materials and processes. It allows to compare the environmental impact of specific raw materials and production processes, identifying areas requiring improvements and selecting the most environmentally friendly scenarios for product manufacturing.

The Group actively collaborates with customers to carry-out cradle to end-life LCA assessments.



Our know-how includes some of the major chemical production technologies. Homogeneous liquid phase oxidation and heterogeneous gas phase oxidation represent the starting point for the production of Phthalic, Maleic and Trimellitic Anhydrides. These processes are based on the use of proprietary tailor-made catalysts. Starting from these building blocks and thanks to specific production technologies, Polynt Group developed a wide range of products suitable for a large number of market applications varying from electrical and automotive to medical and fragrances.

In this field we devote great care to R&D activity, technology implementation, and process control in order to satisfy the growing standard demand for safety and quality that current regulations and markets require.

MAIN PRODUCTION TECHNOLOGIES					
Esterification	Special Esters production for food & fragrances and PVC plasticization				
Polyesterification	Saturated & Unsaturated Polyester Resins, Alkyds, and Polymeric PVC plasticizers production				
Polyesterification: Powdering	Powder Coating Resins production				
Diels-Alder	Special Anhydrides production for curing of epoxy resins				
Hydrogenation	Special Esters and Special Anhydrides production				
Isomerization	Special Anhydrides production				
Addition Reaction	Malic Acid, Vinyl Ester Resins, and Solution Acrylics production				
Moulding Compounds	Fibers reinforced thermoset Moulding Compounds production				
Emulsification	Mixing of different components for Gel Coats production				

# Fitting the Future

Our R&D activity objective is to create products that favorably contribute to consumer needs while continuing to ensure rigorous environmental and health safeguards. For that reason, every day, our laboratories focus their efforts on activities that improve the performance of the final product to broaden their range and that rationalize manufacturing processes through new technologies.

These activities are always conducted keeping in mind our goal of reducing the environmental impact.

In order to reach this goal, we have benefited from the collaboration of several university institutes that allow us to frequently launch new products to the marketplace, while maintaining our traditional objective of creating a people-oriented chemical industry.



# **Strategic Achievements**

Our specialty chemicals business model is based on:

- · Creating original development opportunities through competent and transparent leadership
- Enlarging our integrated production structure
- Improving our capacity to match the emerging market needs and diversify our fields of application by stimulating innovation and focusing attention on our clients' requirements

## Our experience is the guarantee. Our success is the proof. Our commitment is the future.

# Polynt - Reichhold Group Company Addresses

## AMERICAS

### BRAZIL

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