Enables Growth
- Sector-specific, process-focused developmental approach from ‘Molecule to Marketplace’
- Product, application and market development
- Structured Sector Management programmes
- Trends transplantation
- Market extension in conjunction with nodal agencies, machinery manufacturers and leading processors

Supports Development
- Technical support
- Quality Assurance
- Vendor development
- Advisory services
- Collaborative research with scientific institutions
- Partnerships with government bodies and institutions for developing new standards and specifications
- Capability and capacity development

Enriches Relationships
- Knowledge transfer
- Sharing of intellectual capital and technical resources
- Customer meets
- Manpower training

Ensures Sustainability
- Development of sustainable, cost-effective and environment-friendly solutions
- Easing the pressure on natural resources
- Focus on renewable resources
- Balancing economic growth with improved quality of life

Automotive solutions from Reliance Polymers
Making the road ahead smoother
Reliance Industries Limited

Reliance Industries (RIL), led by its Chairman & Managing Director, Mukesh D. Ambani, is India’s largest private sector company on all major financial parameters with a sales turnover of USD 34 billion. RIL is India’s largest exporter with exports constituting nearly 56% of its revenues. It straddles various sectors like oil & gas, refining, petrochemicals, polymers, polyester, chemical intermediaries, textiles, organised retail and SEZs. Since 2004, RIL is the first and only private sector company from India to feature in the Fortune Global 500 list of the ‘World’s Largest Corporations’. It ranks amongst the world’s top 200 companies in terms of profits and is amongst the top 25 climbers.

Reliance Polymers

Reliance Polymers is one of the world’s largest producers of polymers with a current capacity of 3.5 MMT per annum and massive expansion plans underway. It operates world-scale plants for Polypropylene (PP), Polyethylene (PE) and Polyvinyl Chloride (PVC), using state-of-the-art technology, setting global benchmarks in product quality and services.

A wide range of grades in each category provides avenues for diverse applications across agriculture, automotive, building & construction, healthcare, infrastructure, lifestyle and packaging. Superior technological strength, strong focus on R&D, IT-enabled services to support supply chain management and end-to-end solutions offered across the value chain bear testimony to its commitment to customer satisfaction.

Polypropylene

If it can be imagined, Reliance Polymers can help convert it into a business success. That’s ideation. And Repol Polypropylene, with its versatility, does just that - providing new cost-effective applications, across various sectors, through innovation, customisation and material substitution.

As the 7th largest manufacturer of Polypropylene (PP) in the world, Reliance Polymers offers a wide range of Repol Homopolymer, Random and Impact Copolymer grades. With a capacity of over 1.8 MMT per annum and an expansion plan of 0.9 MMT by 2009, the scope for new applications is infinite.

Polyethylene

If it is essential for life, Reliance Polymers helps keep it safe. That’s protection. And Relene Polyethylene with its variety of secure applications does just that - ensuring maximum protection of everything that matters. Reliance Polymers offers the entire range of Relene Polyethylene (PE) viz. High Density Polyethylene (HDPE), Linear Low-Density Polyethylene (LLDPE) and Low Density Polyethylene (LDPE) with a combined capacity of 1.1 MMT per annum.

Relene HDPE is available in a wide range of densities and melt flows to match demanding applications like high-pressure pipes, telecom ducts, carrier bags, woven sacks, caps, closures, injection and blow moulded products.

Polyvinyl Chloride

If it’s natural and invincible, Reliance Polymers can help conserve it. That’s preservation. And Reon Polyvinyl Chloride does just that - protecting our natural resources and life itself - by being the ideal substitute for traditional materials used in agriculture, construction and healthcare.

Reliance Polymers is India’s largest manufacturer of suspension grade Polyvinyl Chloride (PVC), with a capacity of 435 KT per annum across a wide range of viscosities. State-of-the-art manufacturing technology ensures consistency in the resin quality.

Reliance Polymers' solutions for the Automotive Industry

Driving the future

Global automotive industry embraced plastics worldwide due to its inherent advantage of lighter weight, resistance to corrosion and design friendliness. Polyolefins, specially Polypropylene takes a leading role in replacing metal components for better functional properties and cost reduction. Polyolefins also satisfy the growing demand for environment friendly products, enhanced safety standards, increased comfort and better fuel economy.

Reliance Industries Limited is fully committed to the automotive industry with all its expertise in material selection of high performance composites available for interior, exterior and under-the-hood applications. Reliance Industries Limited is also rendering help to OEMs in localisation of resin and providing solutions for the replacement of costly engineering plastics and metals. At Reliance we take up these challenges to support our customers and end users.

Solutions for the Passenger Vehicle segment

Interior Systems – Dashboard and Cluster System

Quality finish, feel and aesthetics

- Centre of all aesthetic appeal, yet demands high functional performance
- High stiffness and impact balance
- Crash impact requirement
- Minimum possible thermal expansion, emission, fogging and odour

Repol PP for Dashboard and Cluster System:

- High MFI and good processability resulting in higher productivity
- Low rejection level
- Excellent stiffness-impact balance, a criterion required for crash impact test
- Low gloss and high-quality surface in any pre-designed texture

Interior Systems - Doors/Pillar Trims

Reliability, noise resolution merit and comfort

Repol PP for Doors/Pillar Trims:

- Aesthetic appeal, sound-proof merit
- Colour consistency
- Reasonable stiffness and impact balance
- Minimum possible thermal expansion, emission and fogging

Repol HDPE for Doors/Pillar Trims:

- Good processability
- Reactor grade for direct moulding
- Low rejection level
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A wide range of grades in each category provides avenues for diverse applications across agriculture, automotive, building & construction, healthcare, infrastructure, lifestyle and packaging. Superior technological strength, strong focus on R&D, IT-enabled services to support supply chain management and end-to-end solutions offered across the value chain bear testimony to its commitment to customer satisfaction.

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As the 7th largest manufacturer of Polypropylene (PP) in the world, Reliance Polymers offers a wide range of Repol Homopolymer, Random and Impact Copolymer grades. With a capacity of over 1.8 MMT per annum and an expansion plan of 900 KT by 2009, the scope for new applications is infinite.

Polyethylene
If it is essential for life, Reliance Polymers helps keep it safe. That’s protection. And Relay Polyethylene with its variety of secure applications does just that - ensuring maximum protection of everything that matters. Reliance Polymers offers the entire range of Relay Polyethylene (PE) viz. High Density Polyethylene (HDPE), Linear Low-density Polyethylene (LLDPE) and Low Density Polyethylene (LDPE) with a combined capacity of 1.1 MMT per annum.
Relay HDPE is available in a wide range of densities and melt flows to match demanding applications like high-pressure pipes, telecom ducts, carrier bags, woven sacks, caps, closures, injection and blow moulded products.

Polyvinyl Chloride
If it’s natural and irreplaceable, Reliance Polymers can help conserve it. That’s preservation. And Ren Polyvinyl Chloride does just that - protecting our natural resources and life itself - by being the ideal substitute for traditional materials used in agriculture, construction and healthcare.
Reliance Polymers is India’s largest manufacturer of suspension grade Polyvinyl Chloride (PVC), with a capacity of 425 KT per annum across a wide range of viscosities. State-of-the-art manufacturing technology ensures consistency in the resin quality.

Reliance Polymers’ solutions for the Automotive Industry
Driving the future
Global automotive industry embraced plastics worldwide due to its inherent advantage of lighter weight, resistance to corrosion and design friendliness. Polyolefins, specially Polypropylene takes a leading role in replacing metal components for better functional properties and cost reduction. Polyolefins also satisfy the growing demand for environment friendly products, enhanced safety standards, increased comfort and better fuel economy.
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Solutions for the Passenger Vehicle segment

Interior Systems - Doors/Pillar Trims
Reliability, noise resolution merit and comfort
- Aesthetic appeal, sound-proof merit
- Colour consistency
- Reasonable stiffness and impact balance
- Minimum possible thermal expansion, emission and fogging

Repol PP for Doors/Pillar Trims:
- Good processability
- Reactor grades for direct moulding
- Low rejection level
- Good stiffness and impact balance
- Low gloss and high-quality surface in any pre-designed texture

Repol PP for Dashboard and Cluster System:
- High MFI and good processability resulting in higher productivity
- Low rejection level
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Repol HDPE for Dashboard and Cluster System:
- Reasonable stiffness and impact balance
- Minimum possible thermal expansion, emission and fogging

Repol LDPE for Dashboard and Cluster System:
- Reasonable stiffness and impact balance
- Minimum possible thermal expansion, emission and fogging

Repol LLDPE for Dashboard and Cluster System:
- Reasonable stiffness and impact balance
- Minimum possible thermal expansion, emission and fogging

Polyethylene for Dashboard and Cluster System:
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Reliability, durability and paintability
- No-break impact properties and high stiffness are principal design criterions in new generation vehicles.
- Smooth surface finishing with good paintability
- Paintability and weatherability criteria to withstand extreme environmental conditions such as acidic, alkaline, highly humid or cold conditions, etc.
- Crash impact requirement
- Minimum possible thermal expansion

Reliance Polymers: A basket of polymers and grades to suit your every need

Reliance Polymers offers the entire range of polymers and specialty grades, each with its own specialty features that are designed to meet your every requirement.

**Repol PP**
- Excellent impact stiffness balance
- High thermal resistance
- High chemical resistance
- High melt flow
- Excellent processability

**Relene PE**
- Excellent flexibility
- Good ESCR
- Excellent chemical resistance
- Good barrier properties
- Excellent processability

**Reon PVC**
- Inherently flame retardant
- Both rigid and flexible applications
- Cost effective and economical
- Good paintability on compounded products

The Repol PP solution for Exterior Systems:
- Good processability and high MFI
- High Spiral Flow characteristics
- Reactor grades with no break impact
- Low shrinkage level
- Low glass and high-quality surface in any pre-designed texture
- Good paintability on compounded products
Polypropylene Components

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The Relpol PP solution for Exterior Systems:
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The opportunities to include high-performance polymers into your vehicles are endless. Here are just a few of the automotive parts that have been made using polymers from Reliance Polymers.

- **Components and Parts**
  - Air Filter Housing
  - Battery Casing
  - Ornament Parts
  - Arm Rest
  - Rocker Box Assembly
  - Dashboard and Cluster parts
  - Interior Systems
  - Grille, Mirror Housing
  - Body Side Trim
  - Weather Strip
  - Wiring Harness
  - Seat Base

Taking polymers further through innovation

Today Reliance Polymers is indubitably leading many in polymers and plastics to reduce carbon, globally. Thanks to its knowledge base, deep understanding of the polymers business and market, and its people, it is at the forefront of the development of advanced technologies, new products and applications, leading the creation of Intellectual Property (IP) and its collaboration with several national and international research agencies.

Reliance Polymers – The 360° advantage

This 360° Partnership is a commitment by Reliance Polymers to its customers. A customer-focused initiative for growth that takes care of the entire value chain from Reliance Polymers to Reliance Polymers’ customers. Our customer is the end user. The objective is to test and optimize the entire value chain.Qualities like performance, reliability, safety and end-user satisfaction are the key drivers for the success of this initiative. Polyesters could be the common thread that connects all the stages.

On the world map, Reliance Polymers is the only company to offer a complete range of Automotive Polymeric solutions under one roof. Its multi-business model taps into different industries and regions worldwide.

The PRTC is supported in its endeavours by Materials & Engineering Research, R&D groups at Mumbai, Hazira and Vadodara and the Product Application & Technology Engineering Research, R&D groups at Mumbai, Hazira and Vadodara. Supported by a team of experts, the Polymer Research & Development Centre (PRTC) is part of Reliance Industries and is a first-of-its-kind centre of excellence in technology partnerships and innovation to support development of advanced technologies, new materials and Vendor Development. It is Mumbai is a centre of excellence that is committed to the development of advanced technologies, new products and applications, leading the creation of Intellectual Property (IP) and its collaboration with several national and international research agencies.

Reliance Innovation Leadership Centre

A first-of-its-kind initiative from Reliance Industries, the Reliance Innovation Leadership Centre – India is a center on excellence that drives the implementation of innovation strategies to accelerate the progress of the business and Technology. The guiding council of the Centre will have some of the world’s leading thinkers and Nobel Laureates in the field of science, technology and innovation practices and its commercialization.

Contact Details

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Reon PVC
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Polymer Panels & Lid, Radiator Fan, Break Fluid
Water washer tank, Battery Casing
Ornament Parts, Arm Rest, Rocker
Coolant Tank
Reservoir, Air Filter Housing,
Qtr. Trim, Body Trim parts, Glove Trims (A,B,C,D), Door Trims, Rear
Dashboard and Cluster parts,
Interior Systems
Housing Moulding, Cowl Grills, Head Lamp
Under-the-Hood Systems
AC Duct
Horn Pad
Fuel Tube, ( Hose Mounted)
Fuel Tank
Bus PTC
Fuel Tank
Seat Cover
Air Duct
Bus PTC
Harness Grip
Seat Cover
Air Duct
Wiring Harness
Reliance Polymers – The 360° advantage
This 360° Partnership is a commitment by Reliance Polymers to its customers. A customer-focused initiative
for growth that takes care of the value chain from Reliance Polymers to the customer in this industry is a vital
development, development of next-generation materials and value development. Reliance Polymers brings
together people, knowledge, technology partnerships and innovation to support development.

Taking polymers further through innovation
Today Reliance Polymers is leading research in polymers and its focus is to work with globally in
innovation in its knowledge base, deep understanding of the polymers business and services and its
people. With a global network of polymer technologists, engineers and sector specialists,
Reliance Polymers is a force to reckon with, globally. Thanks to the R&D
programming in its value chain for growth that takes care of the value chain from
Reliance Polymers to its customers. A customer-focused initiative
for growth that takes care of the value chain from Reliance Polymers to the customer in this industry is a vital
development, development of next-generation materials and value development. Reliance Polymers brings
together people, knowledge, technology partnerships and innovation to support development.

Reliance Innovation Leadership Centre
A first-of-its-kind initiative from Reliance Industries, the Innovation Leadership Centre (ILC) is the first
effort that drives the implementation of innovation strategies or operations in the R&D and Technology
decisions. The goal being the Centre of Excellence on overwhelmed and novel
Laureates in the field of science, technology and innovation practices at its core.
The ILC is part of the corporate services
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Reliance Industries Limited
Reliance Corporate Centre, 15, Weekend Island, Sheffield
Banded, Mumbai 400 008, India.
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Production Application Technology Group
Swami P.O. Company, V. N. P. Naik Marg,
Chembur, Mumbai 400 021, India.
E-mail: polymer_research@ril.com
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Mumbai Tower B, B Wing, Lakeside Pavilion
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Reliance Polymers – The 360° advantage

This 360° Partnership is a commitment by Reliance Polymers to its customers. A customer-focused initiative for growth that takes care of the value chain from Reliance Polymers to its customers, this initiative provides special development, development of new-generation materials and vendor development. Reliance Polymers brings together people, knowledge, technology partnerships and innovation to support development.

Taking polymers further through innovation

Today Reliance Polymers is India’s leading name in polymers and is a force to reckon with, globally. Thanks to its knowledge base, depth understanding of the polymers business and expertise, and its people. With a team of highly specialised and dedicated people, this group is in a unique position to identify challenges, drive innovation, develop new polymers and technologies, engineer and advocate engineering support that helps you to the advantage and leverage your business to the end.

The Future Research & Technology Centre (FRTC) at Mumbai is a centre of excellence that is committed to the development of advanced technologies, new products and applications, leading to creation of Intellectual Property (IP). FRTC collaborates with several national and international research agencies.

The FRTC is supported in its endeavors by Reliance Polymers through technology partnerships and innovation to support development.

Reliance Innovation Leadership Centre

A key role in the initiative from Reliance, this innovation leadership Centre ‘Froot to Fabric’ is an effort that drives the implementation of innovation strategies in operations and in the Research and Technology department. The guiding council of the Centre comprises the Co-Chairmen and Executive Directors from various business and markets and of course, its people. With a highly specialised and dedicated team comprising professionals from various business and markets, IIL’s goal is to actively be involved in the growth that takes care of the value chain from Reliance Polymers to its customers.

Impact on the anvil is also a specialised Automotive Design Cell for design support using UG/NX, CATIA and Pro Engineer. Further, it helps automobile oems and OEMs to meet their objectives of replacing metal with polymers.
Automotive solutions from Reliance Polymers
Making the road ahead smoother