



Rutul Thorat

Lab Chemist (Henkel Adhesives India)

I believe in gaining valuable knowledge regarding any work and applying the knowledge using my observation, analysis to yield maximum efficacy. My area of interest is research and development, Product Development but I like to get insights of all department. I believe that I can utilize my academical and industrial knowledge in an appropriate way in any job profile.

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SKILLS

Research and Development

Product Development

Synthesis

Polymer

Plastics

Rubbers

Processing

Adhesives And Surface Treatment



WORK EXPERIENCE

Lab Chemist Henkel Adhesives

11/2022- Present,

Pune, Maharashtra

Achievements/Tasks

- Worked on the modification of 3 commercially successful products.
- Dealt with various customers in Automotive and General Engineering sector to solve the plant line problems.
- Conducted trials of the product formulated along with the mechanical testing, chemical testing, and analytical testing.
- Studied the surface treatment required for paints on various metals along with the surface coating needed for the same
- Handled various analytical instruments like Inductively Coupled Plasma Spectroscopy X ray diffraction, X ray gun, Differential Scanning Calorimetry along with

Intern Thermoplas Plastics

08/21 - 12/2021

Pune, Maharashtra

Achievements/Tasks

- Learnt about the tool room maintenance along with the process conditions for the mold.
- Acquired the practical knowledge of material handling as well as factors affecting the material properties.
- Different process parameters, trouble shooting was studied during the production

Production Intern Hira Plastics

06/2018 - 07/2018

Nashik, Maharashtra

Achievements/Tasks

- Got hands on experience on extrusion of pipes, sheets and sheet
- Processing parameters related to equipment and materials were observed.

EDUCATION

Masters In Plastic Engineering
Institute of Chemical Technology

2022,
Mumbai, India

Bachelors of Polymer Engineering
Maharashtra Institute of Technology

2019,
Pune, Maharashtra

Diploma In Plastic Engineering
Government Polytechnic Nashik

2016,
Nashik, Maharashtra



VOLUNTEER EXPERIENCE

Contribution in arranging various extra curriculum activities in college



LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

Marathi
Full Professional Proficiency



PROJECTS

Corn based biodegradable polymer (Diploma, Government Polytechnic, Nashik)

Summary - The concept 'Corn based Biodegradable polymer' encompasses of environmentally friendly polymer which can replace the commodity polymer to achieve sustainable development. Following work was carried out during project:

- Research and literature work was done from various industrial sources.
- Material was given a form and it was further tested on various testing machines.
- Material was exposed to environment to check its biodegradability.
- Thus, a material having biodegradability was developed

Conductive Inks (Bachelor of Engineering, Maharashtra institute of technology, Pune)

Summary - Conductive inks are the special class of polymer material that conducts electricity whenever an external source of energy is applied. The ongoing project will consist of the following work:

- Research about the conductive inks currently developed by various manufacturers.
- Development of conductive inks. using polyacetylene
- Testing of conductive inks using various ASTM standard procedure.
- Trial of application of developed conductive inks

Use of Fiber Reinforced Epoxy Araldite for Strengthening Civil Infrastructure, M.E, ICT Mumbai. Project Guide: Dr. D.D. Sarode

Summary - Epoxy has an inherent property of water resistance due to the absence of ester group at both the end. This adds to the adhesive property of the epoxy, and it makes it useful for uses in developing FRP for construction purpose.

- Bio fiber of Hemp, PP waste fibers and E glass fibers were reinforced in Epoxy Araldite LY556. Alkyl Hardener was added in epoxy in the ratio of 10:1 for cross linking reaction.
- Different volume fractions of Fibers and Epoxy were studied to conclude its effect on the behavior of concrete.
- Compression test along with the effect of sea water on FRP was studied in the project