





**GREAT
INITIATIVES
ARE BUILT ON
STRONG
FOUNDATION!**



About Regen Polytech

Regen Polytech is established in 2018 as a joint venture of Aroma Plastics and Greenage Industries. Regen Polytech is dealing into development and manufacturing of recycled/reprocessed LLDPE based Rotational Moulding Compounds.

Aroma Plastics was established in 1998 by Mr Ramesh Jain, which today possess 20 years of vast technical experience in recycling and compounding of various grades and types of polymers. It has an annual production capacity of 4000 MT of polymer recycling and compounding at Ahmedabad with sales network reaching pan India.

Greenage Industries headed by Mr Ravi Kadivar was established in 2012 as part of 30 years old UMIYA GROUP of COMPANIES. It has etched its name as premium Rotomoulding Compound supplier in India with its state of the art manufacturing setup, which is the only TUV SUD certified ISO 9001:2015 company in India. It also boasts a dedicated research and development capabilities and full time technical support for Rotomoulding Industry requirements.



VISION

We thrive to safeguard mother earth by providing sustainable polymer solutions and in the process assist rotomoulders in accrediting their role in sustainable business practices.



Value

Sustainability, Ethical Business Practices, Transparency & Honesty.

**GREAT
FUTURE
LIES IN
GREAT
VISION!**



MISSION

Our Mission is to aid our environment to live longer by achieving innovative polymer recycling capabilities of 20000 MT per annum by 2025.

SUCCESS IS ALL ABOUT RIGHT CHOICES!



LOW INVESTMENT

It cuts down heavily on investment required for hi-tech machines used for Granulation and Pulverising the powder. This paves the way for budding entrepreneurs to venture in rotomoulding in a cost effective manner with low manpower requirements.



LOW PRICING

We offer a lower price margin of Green Ethene Powder as we procure it through large scale processing. This enables us to leverage on costing, offering quantity discounts from the suppliers.





HIGH QUALITY

We practise a no tolerance policy in terms of quality. All our products pass stringent quality test following the norms as per IS 12701: 1996 & IS 1014:2001.



LESS SPACE

Procuring the compound from us relieves the customer from managing inventories leading to less space requirement.



RECYCLED ROTOMOULDING POWDER

Our recycled compounds are designed & manufactured keeping in mind the requirements of Rotomoulding Process which demands excellent thermal stability. All our grades can be rotomoulded with the same temperature profile, as is being used while rotomoulding prime grades. Following are some of special characteristics of our compounds.

THERMALY STABLE

When polymer is exposed to thermal exposure, it induces oxidation which can lead to undesirable effects such as discoloration, deterioration of mechanical properties and changes in melt viscosity. We ensure all are compounds are thermally stable by dosing Anti-Oxidants. We use a blend of primary & secondary Anti-Oxidants which consists of hindered phenols and phosphites. This ensures the mechanical properties of our compounds are intact.

EXCELLENT CYCLE/OVEN TIME

We have ensured our composition of raw materials are selected and blended with utmost care to ensure they process and mould on the exact same temperature settings as are used while rotomoulding prime compounds. Not just our powder, but even our Raw Material goes under rigorous quality testing before being processed further. All our compounds adhere to standard PIAT (PEAK INTERNAL AIR TEMPERATURE) requirements which is between 190-210



RESIN AND POWDER PROPERTIES

Typical Properties	Test Method	Unit	Typical Values*
Melt Flow Index (190 oC/2.16 Kg)	ASTM D1238	gm/10 min	3.8
Density (23 oC)	ASTM D1505	gm/cm3	0.935
Dry Flow	ARM Standard	Secs	21-25
Powder Bulk Density	ASTM D1895 – 17	Kg/m3	380 – 480
ESCR (F-50, 10% Igepal)	ASTM D1693	hours	250
Vicat Softening Point	ASTM D1525	oC	120
UV Stability (rating)	ASTM D2565 – 16	hours	8000 (Uv8)

Packing Available



Regen Bags

Our Water Tank Powders are packed in specialized bag on fully automatic packing lines in 20 kg packing. The bag design is customized to ensure logistic convenience while handling. When filled it takes shape of box that ensures easy handling while loading and unloading on stacks/pallets. Being packed on automatised packing lines ensures exact weight, leakage proof along with excellent moisture resistance. The bags are marked with powder batch details on 2 sides which ensures no matter how it is stacked, it is easy for operators to identify the material.



Regen Bag

Applications



Horizontal Tank



Pallets



Water Tank



Road Barrier



Underground Tank



EXCELLENCE MEANS INVESTING IN QUALITY

GreenAge believes in providing global quality to our esteemed customers. The complete production procedure comprises of specifications unique to each product. Each batch undergoes stringent checking at every step to get customized according to the requirements of the customers. The batches are based on the original 'Master Standard' approved Compound Powder Sample. Sample pouches from each batch are preserved to maintain a traceable history of deliverables with complete information. Issues arising if any are promptly solved due to our systematic procedure where the root cause of the problems is deal with efficiently. Quality of our products follows international norms such as Is12701 : 1996- "Specification For Rotational Moulded Polyethylene Water Storage Tanks" and IS 10141 : 2001 - "Posotive List Of Constituents Of Polyethylene In Contact With Foodstuffs, Pharmaceuticals And Drinking Water."

PROVEN PRODUCT

Once all raw materials are passed through quality tests, they are dosed as per requirement in final production batch for compounding. After compounding, we test resin on viscosity & density to ensure they are ideal for Rotomoulding. Then they are pulverised on German mills with custom designed segments/blades which ensures the shape and size of powder is in place. The powder is then put to extensive tests of Dry Flow, Particle Size Distribution, and Bulk density. Once all these test are done the powder is Rotomoulded at different PIAT's in small cube mould. The specimen are obtained from these cubes for further mechanical testing such as Tensile Strength, Elongation, Flexural Strength, ARM Low Temperature Impact Strength etc. After complying to all inhouse test parameter the batch is marked APPROVED for bagging and dispatch.

AVAILABILITY

Since consistent raw material availability in recycling industry is a major challenge, we have sanctioned MOU's with not just India's but even Internationally leading Rotomoulding companies to ensure round the year availability of raw material of consistent quality. We also have vast sales network across India and in major international continents to ensure easy of procurement of our compounds and we believe in strictly adhering to our delivery schedules.







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