

Tougher paint pails with improved aesthetics

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Key advantages

- Improved toughness for less damage
- Lightweight for lower transportation costs
- Enhanced appearance for shelf appeal
- Easy to process
- Less scrap

The paint pail manufacturing industry in India has evolved in the last decade. Lighter weight products with greater durability and improved appearance, combined with ease of processing and faster cycle times to deliver cost-effective performance have been key factors driving change. Major paint manufacturers in the country have played a key role in this evolution by taking a bold step towards plastic containers.

Manufacturers have been replacing traditional packaging materials, such as metal, with plastics. ExxonMobil™ polypropylene (PP) impact copolymer resins have become the proven material of choice. A major manufacturers, R.K. Metal & Plastic Pvt Ltd of Daman, India uses ExxonMobil PP impact copolymers to improve the packaging integrity and appearance of pails used for emulsion paint, while reducing weight compared with metal pails.

Grades	Melt flow rate (g/10 min)	Key features
ExxonMobil PP7032E3	4	<ul style="list-style-type: none"> ▪ Balanced stiffness–impact properties ▪ Super high impact (no-break grade)
ExxonMobil PP7033E3	8	<ul style="list-style-type: none"> ▪ Balanced stiffness–impact properties ▪ High impact ▪ Medium flow
ExxonMobil PP7033N	8	<ul style="list-style-type: none"> ▪ Excellent stiffness ▪ Good impact properties ▪ Medium flow

“We changed to ExxonMobil™ PP impact copolymer resins for injection molded pails because of the leakage, transportation and aesthetic problems we experienced with metal pails. This included rust, dents and dust build-up. Using these products has improved the impact strength and locking system of the pails. This has reduced damage and enhanced their appearance for greater shelf appeal,” said Pankaj Sheth, managing director, R.K. Metal & Plastic Pvt Ltd.

ExxonMobil PP impact copolymer resins are easy to process and the pail can be molded into a tapered shape with lower weight. The stacking and nesting capability of the pails during storage and transportation has been improved, reducing overall logistic costs. According to the company, when they switched from metal to ExxonMobil PP impact copolymers, the number of 20-liter pails that could be transported on one truck increased from about 950 to 2,000. The company has also experienced lower rejection rates of less than one percent with plastic pails, compared to two percent for metal pails.

“Producing plastic paint pails with thinner walls improves the sustainability and overall performance of our company. It reduces raw material use and waste production, while allowing us to meet stringent OEM requirements for lightweight, strong solutions,” said Sheth. “Pails for emulsion paints require high drop impact resistance and stacking strength to meet demanding load bearing requirements. Injection molded pails made from ExxonMobil PP impact copolymers are able to meet these requirements.”

Consistent impact performance is another reason the company selected ExxonMobil PP impact copolymer resins. “In northern India, temperatures during the cold season can be as low as 6-10°C (43-50°F). Pails manufactured from other suppliers’ resins sometimes cracked and failed at these temperatures due to inconsistent product quality. ExxonMobil PP impact copolymers provide reliable product quality to meet the cold temperature requirements,” said Sheth.

ExxonMobil Chemical offers a portfolio of ExxonMobil PP impact copolymer resins for injection molded pails. ExxonMobil PP7032E3 and PP7033E3 resins provide outstanding impact strength to improve the toughness and durability of pails. ExxonMobil PP7033N resin is a nucleated resin, offering enhanced stiffness.

About R.K. Metal & Plastic Pvt Ltd

R.K. Metal & Plastic Pvt Ltd is a leading manufacturer of injection molded plastic containers. The company has two manufacturing and printing facilities in Daman, India. Pails are used for lube oils, paints, chemicals, food grade products, consumables and sales promotional items. R.K. Metal & Plastic Pvt Ltd manufactures plastic containers of different capacities including from 0.5 kg to 20 kg and 5 liter to 20 liter. The company has fully automated labeling equipment (HTL) and high-speed screen printing machines.

www.rkcontainers.com



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