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5 Tips For Quickly Sourcing High-quality Plastic Rotomolded Events Furniture In China Factory

1. Luminous plastic rotomolding event furniture factories are most distributed in Guangdong, China

Guangdong, Zhejiang, Jiangsu and Shandong provinces are the provinces with developed plastics industry in China. The plastic products processing enterprises in these regions are in the forefront of the country both in terms of quantity and output of in-process products.

According to statistics, there are 4,484 enterprises engaged in the production of plastic products in Guangdong Province, 2,353 in Shandong Province, 5,795 in Zhejiang Province, and 3,666 in Jiangsu Province. There are 16,298 processing enterprises in the four provinces, accounting for 47.62% of the national total. From the perspective of the regional distribution of plastic product output, Guangdong, Zhejiang, and Jiangsu provinces account for more than 55% of the country's product output, and Guangdong's plastic product output accounts for 26% of the country's.

2. The plastic furniture adopts the process of rotational molding

Rotational molding (also known as rotational molding) is a process that involves heating a hollow mold filled with powdered thermoplastic and rotating about two axes, primarily to produce large hollow objects. The process of rotomolding thermosets is also possible, but less common.

Manufacturing process:

(1) Loading: Load the plastic powder into the mold cavity, then install the rest of the mold, close the cavity for heating.

(2) Heating: The mold is heated until the plastic powder melts and adheres to the mold wall, while the mold rotates along two vertical axes to ensure a uniform plastic coating.

(3) Cooling: Cool the mold slowly while keeping the mold in motion to ensure that the skin of the part does not sag or collapse before it is fully solidified.

(4) Parts removal: The parts are separated from the mold and any flash is trimmed away.

3. The most common material for rotomolded furniture is polyethylene

(1) The most common material for rotational molding is polyethylene (PE), which is used in 80% of applications, mainly because PE is easily ground into powder at room temperature.

(2) Common rotomolding plastics include:

polyethylene

polypropylene

PVC

nylon

polycarbonate

4. The benefits of switching furniture from metal to plastic

The versatility, reduced weight, durability, strength and non-corrosive properties of plastic ensure you get the best value for money from every piece.

Advantages of metal to plastic conversion:

(1) Fewer parts

Rotational molding makes it possible to manufacture more complex and complex designs. Products can be produced with fewer parts, reducing costs. Metal threads and inner tubes can also be added to the mold before the molding process begins.

(2) Fast and efficient production

Rotational molding generally requires less tooling and lead time. This makes the process ideal when you need short runs and urgent deliveries. It is often possible to switch colors without cleaning the mold, which also speeds up production. When mass production is required, large quantities of low-cost aluminum molds can be quickly manufactured.

(3) Strength and durability

The spinning process eliminates stress points common to other manufacturing methods. As a result, corners are generally firmer and more consistent. Stiffeners can be added to the design to increase strength while reducing material costs. Consistent wall thickness is easier to achieve, allowing thinner wall gauges to be used, reducing material costs and production time.

(4) In-mold graphics

Shape your motion graphics and messages directly into the product. Elevate your brand with striking, molded graphics. Serial numbers, barcodes and other information can also be moulded directly into the product, eliminating the need for labels that can deteriorate over time. Also, the spin casting process will easily reproduce any texture present in the mold.

(5) Sustainability

Rotomolding works well with polyethylene, a common recycled plastic. At the end of the product life cycle, polyethylene is ground into pellets to produce new products. Additionally, rotomolding has minimal waste. Unlike other processes, it does not leave runners, runners or pinch off scrap.

5. The advantages of using polyethylene material for rotomolding led furniture

(1) Environmentally friendly: One of the best reasons to use polyethylene for large plastic structures is that it is considered environmentally friendly. Given the enormous structures built out of plastic, it makes sense to use a rather eco-friendly material.

(2) Easy to clean: Another huge advantage of using this material is the ease of cleaning. No need for a ton of cleaning products, simple soap and water can refresh your products.

(3) Impact resistance: One of the biggest benefits of using polyethylene is that it has impact resistance. This makes it an excellent choice for items such as ships and large containers.

(4) Corrosion resistance: This material is also considered to be corrosion resistant. No need to worry about damage from oxidation and other chemical reactions. This makes it an excellent choice for a variety of large structures.