

ROTATIONAL MOLDING POWDER

RAPID ROTO 3604

Rapid Roto 3604 is a linear medium density polyethylene specifically designed for rotational applications. Rapid Roto 3604 has good flow, toughness, impact resistance and environmental stress crack resistance (ESCR).

POLYMERS

All powders are manufactured from prime virgin grades of polymers manufactured by the major polymer producers. All the grades mentioned have been manufactured from polymers that meet the requirements to Indian Standard IS:10146-1982 on "Polyethylene for its safe use in contact with foodstuffs, pharmaceuticals, and drinking water"

TECHNICAL SPECIFICATIONS

(Data shown are average values and should not be used for specification results)

PROPERTY	TEST METHOD	VALUE
Material	Prime Virgin Grade	Polyethylene
Density	ASTM D1505	0.935 gms./ cc
Vicat Softening Point	ASTM D1525	116°C
Melt Indix 190 °C/ I _{2.16}	ASTM D1238	~4.2 gms./ 10 min
Tensile Strength at Yield	ASTM D638	14 Mpa
Elongation at Yield	ASTM D638	930%
Flexural Modulus	ASTM D790	550 Mpa
Izod Impact Strength (Notched)	ASTM D256	144 J/m
Powder Particle Size		Finer than 450µm
Colors		Black, Sky Blue, Brick Red and natural available ex-stock Custom Colors can be manufactured

TYPICAL APPLICATIONS

Water and chemical tanks, Pallets and material handling, silos, bins, boats, septic tanks, flower pots, feed carts, calf hutches, outdoor toys, fuel tanks, vending machines, boat hulls, cool boxes, utility handling carts, kayaks..

HOT MELT COMPOUNDED COLOURS

All the colors are hot melt compounded in high performance extruders. This ensures a uniform dispersion of pigments and additives in the resin. This enhances the UV stability of the polymer. It also prevents color variation from product to product, pigment migration and pigment wipe off.

SPECIAL GRADES

Rapid Roto 3604 can be incorporated with additional properties to suit individual requirements.

- **Rapid Roto 3604** can be incorporated with additional properties to suit individual requirements.
- **Anti-Static:** Special formulations provide protection against dust pick-up and static generation. Find application in the food industry where hygiene is extremely essential.
- **UV Stabilised:** Special formulations are available for protection against harsh sunlight/ UV Light Find application in the outdoor articles in countries like India, Saudi Arabia, etc.
- **Custom Colours:** Powders can be manufactured in the other grades of L.D.P.E./ L.L.D.P.E./ H.D.P.E. and in different colors & fineness to suit individual requirements.

The data, information and suggestions provide here are to the best of our knowledge true and accurate. Rapid Engineering Co. Pvt. Ltd. undertakes no responsibility either for the result deriving from their adoption or for possible positions in apparent contrast with existing patent rights.