

GEMAG Roto 3504 is a linear low density polyethylene specifically designed for rotational applications. GEMAG Roto 3504 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
<b>RESIN PROPERTY</b>		
Material	Prime Virgin Grade	Polyethylene
Melt Index 190°C/ I <sub>2.16</sub>	ASTM D1238	~ 4.2 gms./ 10 min
Density	ASTM D1505	0.935 gms./cc
Vicat Softening Point	ASTM D1525	116°C
Crystallization Point	ASTM D2117	113°C
Heat Deflection Temperature	ASTM D648	64°C
Powder Particle Size		Finer than 450µm
<b>MECHANICAL PROPERTY</b>		
Tensile Strength at Yield	ASTM D638	14 MPa
Elongation at Yield	ASTM D638	930%
ESCR (F-50) @ 100%	ASTM D1693	> 1000 hrs
@ 10%	ASTM D1693	350 hrs
Flexural Modulus	ASTM D790	550 MPa
Izod Impact Strength (Notched)	ASTM D256	144 J/m
ESCR (100% Igepal)	ASTM D1693	> 1,000 hrs F <sub>50</sub>
Brittleness Temperature	ASTM D746	< -60°C
UV Resistance	kLy	500
Colors	Black, Sky Blue, Brick, Red and natural available ex-stock Custom Colors can be manufactured.	

### Hot Melt Compounded Colors

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

GEMAG Roto 3504 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.

### Product Available form

Powder (GEMAG Roto 3504) - 25 kg. Bag

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