

# **Rapid Polymers** **MASTER BATCHES**

Since 1974

## **MASTERBATCHES**





## R&D / ANALYTICAL RESOURCES

Rapid helps customers to find solutions to improve product quality while reducing cost. Testing is performed under real world conditions to deliver solutions that can be implemented. The R&D centre is fully equipped with cutting edge process, physical and analytical testing instruments.

Process Labs	Physical Testing Labs	Analytical Labs
Twin Screw Extruders	Carbon Black Content Tester	Differential Scanning Calorimeter (DSC)
Farrel Continuous Mixers	Muffle Furnace	Thermogravimetric Analyser (TGA)
Xenon Arc Weatherometer	Hot Air Oven	Fourier Transform Infrared Spectrometer (FTIR)
QUV Weatherometer	Transmittance Meter	X-Ray Fluorescence (XRF)
Monolayer Blown Film Lines	Gloss Meter	Particle Size Analyser
Injection Molding	Melt Flow Index Tester	Salt Spray Chamber
High Speed Mixers	Pigment Muller	Spectrophotometer





## ADDITIVE & PROCESS AID MASTERBATCHES

Rapid's additive & process aid masterbatches are customised based on manufacturing process & desired attributes in the final plastic product.

These specifically customized masterbatches includes:

Antiblocks	Light Diffusers	Anti-Microbial
Antifogs	Slip	Odour Absorber
Antioxidants	UV Light Stabilizers	Mould Release agent
Antistats	Desiccant Concentrates	Processing Aid
Antiscratch	Oxo Bio Degradable	Purge Additive
Flame Retardants	Rodent Repellent	Shutdown Compound

Some grades of our Additive & Process Aid masterbatches are:

Product Name	Product Code	Properties
MB PE Anti Block 007	PEM-CIA007	Act as physical separator between two layers
MB PE Heat Stabilizer 016	PEM-CIA016	Prevents thermal degradation
MB PE Anti Stat 004	PEM-CIA004	Dissipates static charge for short time period
MB PE Anti Stat 038	PEM-CIA038	Dissipates static charge for long time period
MB PE Slip 003	PEM-CIA003	Fast Slip in PE Film
MB PE Slip 005	PEM-CIA005	Slow Slip in PE & PP
MB PE UV 001	PEM-CIA001	UV Stabilizer (Non-Food Grade)
MB PE UV 002	PEM-CIA002	UV Stabilizer (Food Grade)
MB PE Process Aid 020	PEM-CIA020	Improves melt processability
MB PE Optical Brightener 013	PEM-CIA013	Enhance brightness
MB PE Flame Retardant 014	PEM-CIA014	Inhibit burning of polymer



## COLOUR & EFFECT MASTERBATCHES

Rapid Polymers have cost effective solutions to enhance product's visual appearance, functionality and performance depending on the nature of requirement. Rapid color masterbatches are developed from high quality pigments which provides the product excellent dispersion and quality. Our colour masterbatches are used for different applications which comply with required regulatory compliances.

We also offer Colour Masterbatches for:

RAL & Pantone Shade Card Equivalents

Applications where MB needs to comply with EN 71-3, REACH, FDA, EU and other relevant compliances

Low Warpage Applications

Transparent, Pearlescent, Metallic Applications

Fluorescent Applications

Glow in Dark and Optical Brightners

Our colour and effect masterbatches are available in various speciality base carriers such as:

Polypropylene (PP)

Thermoplastic Polyurethane (TPU)

General Purpose Polystyrene (GPPS)

Ethylene Vinyl Acetate (EVA)

Acrylonitrile Butadiene Styrene (ABS)

Polyamides (Nylon)

Styrene Acrylonitrile (SAN)

Polyacetals (POM)

Polycarbonate (PC)

Polyethylene Terephthalate (PET)



## WHITE MASTERBATCHES

Rapid offers a wide range of white masterbatches with a concentration range from 20% to 75% of titanium dioxide based on PE, PP, PA, PS/ABS, PC & PET polymers. High quality twin screw extruders & continuous mixers are used to achieve uniform dispersion of titanium dioxide resulting in uniform appearance and opacity.

Granule size is tightly controlled to enhance dosage control & accuracy.

Our masterbatches are used successfully in following processes:

Monolayer Extrusion	Filament Extrusion	Injection Moulding
Multilayer Extrusion	Rotational Moulding	Blow Moulding

Some of our grades of white masterbatches are:

Product Name	Product Code	TiO2 Content	Carrier Resin	Injection Moulding	Blow Moulding	Mono Layer	Multi Layer
MB PE White 009	PEM-WhQ009	20%	PE	.	.	.	.
MB PE White 018	PEM-WhQ018	25%	PE	.	.	.	.
MB PE White 002	PEM-WhQ002	35%	PE	.	.	.	.
MB PE White 019	PEM-WhQ019	40%	PE	.	.	.	.
MB PE White 034	PEM-WhQ034	50%	PE	.	.	.	.
MB PE White 036	PEM-WhQ036	55%	PE	.	.	.	.
MB PE White 085	PEM-WhQ085	55%	PE	.	.	.	.
MB PE White 083	PEM-WhQ083	65%	PE	.	.	.	.
MB PE White 001	PEM-WhQ001	70%	PE	.	.	.	.
MB PE White 004	PEM-WhQ004	70%	PE	.	.	.	.
MB PS White 011	PSM-WhQ011	20%	PS	.	.	.	.
MB PC White 006	PCM-WhQ006	50%	PC	.	.	.	.
MB PT White 003	PTM-WhQ003	50%	PET	.	.	.	.



# BLACK MASTERBATCHES

Rapid Polymers incorporates one of the best in-class technologies to produce black masterbatches with highest levels of dispersion and carbon black loading levels. From basic injection moulding to fine film applications we offer an extensive range of masterbatches.

Features of our Black Masterbatches:

High Jetness	FDA & REACH Compliant Carbon	Consistent Quality
High Gloss	Low Filter Pressure Value	'P-type' Carbon

Some of our grades of Black Masterbatches are:

Product Name	Product Code	Carbon Content	Carrier Resin	Category	Injection Moulding	Blow Moulding	Mono Layer	Multi Layer
MB PE Black 007	PEM-BkQ007	30%	PE	Economic	•		•	
MB PE Black 006	PEM-BkQ006	30%	PE	Premium	•	•	•	•
MB PE Black 010	PEM-BkQ010	40%	PE	Economic	•			
MB PE Black 018	PEM-BkQ018	40%	PE	Economic	•		•	
MB PE Black 009	PEM-BkQ009	40%	PE	Premium	•	•	•	•
MB PE Black 003	PEM-BkQ003	40%	PE	Premium (FDA)		•	•	
MB PE Black 011	PEM-BkQ011	50%	PE	Economic	•	•	•	
MB PS Black 001	PSM-BkQ001	15%	PS	Premium	•			
MB PC Black 001	PCM-BkQ001	15%	PC	Premium	•			
MB PA Black 001	PAM-BkQ001	20%	PA	Premium	•			



## ABOUT US

Founded in **1974** in New Delhi, India, Rapid Engineering Co. Pvt. Ltd. has grown into a leading manufacturer of

- **Thermosetting Epoxy / Polyester Powder Coatings**
- **Thermoplastic Powder Coatings**
- **Plastic Masterbatches**
- **Adhesive Powders**

**Rapid's two manufacturing plants are located in Sahibabad, Uttar Pradesh & Noida, Uttar Pradesh.** Total manufacturing space exceeds 300,000 square feet. Rapid also operates sales offices cum warehouses in New Delhi, Mumbai, Pune and Bangalore. Rapid's products are exported to more than 40 countries and is recognized as a **"Star Export House"** by the Government of India. Since 2001, the company is ISO certified and is currently compliant with **ISO 9001: 2015** certification.

Rapid's outdoor durable Powder Coatings are Class 1 & Class 2 certified by Qualicoat, Switzerland. Rapid's fire-resistant powder coatings are VO rated by United Laboratories (UL), USA. Rapid utilises cutting-edge instruments like DSC, FTIR, TGA, XRF, Spectrophotometer and QUV to develop innovative and sustainable solutions for customers.

In 2019, Rapid commenced cryogenic pulverisation to produce fine powders of difficult to grind polymers such as LDPE, HDPE, EVA & TPU for metal coatings and as adhesives in leather and textiles.

**Rapid Polymers**  
MASTER BATCHES

**Rapid Coat**  
POWDER COATINGS

**Rapid Polymers**  
ADHESIVE POWDERS

## APPLICATIONS

Rapid's Masterbatches are utilised in different processes such as blow moulding, injection moulding, extrusion, thermoforming, raffia in the following industries/sectors.

Various Sectors for our product includes:

Packaging	Building & Constructions	Medical Equipments
Agricultural	Electronics & Electricals	Toys
Automotive	Fibre & Tapes	Ropes/Mono Filaments
Household Items	Non - Woven	Stationary Items



# Rapid Polymers MASTER BATCHES

(A Unit of Rapid Engineering Co. Pvt. Ltd.)

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