





Introduction



Precise New Material offers wide range of mono masterbatch (single pigment concentration) which is in granular form and different carriers based. In order to generate the best qualified product, we select pigments with perfect dispersibility and load them at high concentration with resins.

'Reise' series mono masterbatches are concentrated by organic pigments and fiber grade PP and LLDPE carriers. They can be used as replacement of powder pigments, but the dispersibility is improved and provide customers a dust-free and easier handling solution.

'Reisol' series mono masterbatches are concentrated by solvent dyes and PBT carries. They are recommended for coloring polyester fiber and other PET/PBT related applications.

Typical applications for mono masterbatch is the manufacturing of tailor color masterbatches, compounding, thin films, fibers and filaments. We test FPV for each product which completely meets the standard for fiber and filament application.





Benefits from masterbatch



Dust free



As replacement of powder pigments to ensure dust free operations and ease of handling.

High efficiency



Reducing cleaning times between batches ensuring high production efficiency with minimal wastage.

More applications



Its pre-dispersed characteristics find its outstanding suitability for manufacturing of filaments, thin Film, tailor-made masterbatch and compounds.



List A. Polyethylene Mono Masterbatch



REISE CODE	C.I. No.	PIGMENT CONTENT %	POLYMER COMPATIBILITY			HEAT STABILITY	LIGHT FASTNESS
			LDPE	LLDPE	HDPE	C°	1-8
M156-1	Pigment Red 48:2	40%	■	■	■	220	6
M160-1	Pigment Red 48:3	40%	■	■	■	240	6
M136-1	Pigment Red 53:1	40%	■	■	■	240	5
M152-1	Pigment Red 57:1	40%	■	■	■	240	5
M1440-1	Pigment Red 254	40%	■	■	■	260	8
M1123-1	Pigment Red 170 f3rk	40%	■	■	■	220	7
M1125-1	Pigment Red 170 f5rk	40%	■	■	■	220	7
M1360-1	Pigment Red 144	40%	■	■	■	260	7
M1200-1	Pigment Red 122	40%	■	■	■	280	7
M1560-1	Pigment Red 176	40%	■	■	■	260	7
M1280-1	Pigment Red 214	40%	■	■	■	300	8
M1320-1	Pigment Red 242	40%	■	■	■	300	8
M216-1	Pigment Yellow 13	40%	■	■	■	200	5-6
M232-1	Pigment Yellow 17	40%	■	■	■	200	5-6
M262-1	Pigment Yellow 62	40%	■	■	■	240	6
M244-1	Pigment Yellow 83	40%	■	■	■	200	6-7



List A. Polyethylene Mono Masterbatch



REISE CODE	C.I. No.	PIGMENT CONTENT %	POLYMER COMPATIBILITY			HEAT STABILITY	LIGHT FASTNESS
			LDPE	LLDPE	HDPE	C°	1-8
M2520-1	Pigment Yellow 139	40%	■	■	■	240	7
M2240-1	Pigment Yellow 150	40%	■	■	■	300	8
M2280-1	Pigment Yellow 155	40%	■	■	■	240	7-8
M2600-1	Pigment Yellow 168	40%	■	■	■	240	7
M2360-1	Pigment Yellow 180	40%	■	■	■	240	7-8
M2480-1	Pigment Yellow 183	40%	■	■	■	300	7-8
M2440-1	Pigment Yellow 191	40%	■	■	■	300	7
M334-1	Pigment Orange 34	40%	■	■	■	200	7
M328-1	Pigment Orange 43	40%	■	■	■	280	8
M340-1	Pigment Orange 64	40%	■	■	■	260	7
M424-1	Pigment Blue 15:0	40%	■	■	■	210	7-8
M428-1	Pigment Blue 15:1	40%	■	■	■	280	7-8
M436-1	Pigment Blue 15:3	40%	■	■	■	280	7-8
M528-1	Pigment Green 7	40%	■	■	■	300	8
M640-1	Pigment Violet 19	40%	■	■	■	300	8
M620-1	Pigment Violet 23	40%	■	■	■	260	7



List B. Polypropylene Mono Masterbatch (Fiber grade)



REISE CODE	C.I. No.	PIGMENT CONTENT %	POLYMER COMPATIBILITY			HEAT STABILITY	LIGHT FASTNESS
			LDPE	LLDPE	HDPE	C°	1-8
M156-2	Pigment Red 48:2	40%	■	■	■	220	6
M160-2	Pigment Red 48:3	40%	■	■	■	240	6
M136-2	Pigment Red 53:1	40%	■	■	■	240	5
M152-2	Pigment Red 57:1	40%	■	■	■	240	5
M1440-2	Pigment Red 254	40%	■	■	■	260	8
M1123-2	Pigment Red 170 f3rk	40%	■	■	■	220	7
M1125-2	Pigment Red 170 f5rk	40%	■	■	■	220	7
M1200-2	Pigment Red 122	40%	■	■	■	280	7
M1560-2	Pigment Red 176	40%	■	■	■	260	7
M1280-2	Pigment Red 214	40%	■	■	■	300	8
M1320-2	Pigment Red 242	40%	■	■	■	300	8
M232-2	Pigment Yellow 17	40%	■	■	■	200	5-6
M262-2	Pigment Yellow 62	40%	■	■	■	240	6
M244-2	Pigment Yellow 83	40%	■	■	■	200	6-7



List B. Polypropylene Mono Masterbatch (Fiber grade)



REISE CODE	C.I. No.	PIGMENT CONTENT %	POLYMER COMPATIBILITY			HEAT STABILITY	LIGHT FASTNESS
			LDPE	LLDPE	HDPE	C°	1-8
M2520-2	Pigment Yellow 139	40%	■	■	■	240	7
M2240-2	Pigment Yellow 150	40%	■	■	■	300	8
M2280-2	Pigment Yellow 155	40%	■	■	■	240	7-8
M2600-2	Pigment Yellow 168	40%	■	■	■	240	7
M2360-2	Pigment Yellow 180	40%	■	■	■	240	7-8
M2480-2	Pigment Yellow 183	40%	■	■	■	300	7-8
M2440-2	Pigment Yellow 191	40%	■	■	■	300	7
M334-2	Pigment Orange 34	40%	■	■	■	200	7
M340-2	Pigment Orange 64	40%	■	■	■	260	7
M428-2	Pigment Blue 15:1	40%	■	■	■	280	7-8
M436-2	Pigment Blue 15:3	40%	■	■	■	280	7-8
M528-2	Pigment Green 7	40%	■	■	■	300	8
M640-2	Pigment Violet 19	40%	■	■	■	300	8
M620-2	Pigment Violet 23	40%	■	■	■	260	7



List C. Polyester Mono Masterbatch (Fiber grade)



REISOL CODE	C.I. No.	DYE CONTENT %	POLYMER COMPATIBILITY		HEAT STABILITY	LIGHT FASTNESS
			PET	PBT	C°	1-8
MPT1240	Solvent Yellow 114	30-40%	■	■	300	7
MPT101	Solvent Yellow 160:1	30-40%	■	■	280	5
MPT1400	Solvent Yellow 163	30-40%	■	■	300	8
MPT1560	Solvent Yellow 176	30-40%	■	■	300	7-8
MPT1440	Pigment Yellow 147	30%	■	■	300	8
MPT228	Solvent Red 52	30-40%	■	■	290	7
MPT201	Solvent Red 135	30-40%	■	■	300	7-8
MPT242	Solvent Red 135 Bluish	30-40%	■	■	300	7-8
MPT2680	Solvent Red 179	30-40%	■	■	300	6-7
MPT205	Solvent Red 195	30-40%	■	■	300	8
MPT2360	Solvent Red 207	30-40%	■	■	300	7
MPT2200	Solvent Red 230	30-40%	■	■	300	8
MPT301	Solvent Green 3	30-40%	■	■	300	7
MPT340	Solvent Green 28	30-40%	■	■	300	7-8
MPT412R	Solvent Blue 3R	30-40%	■	■	300	7



List C. Polyester Mono Masterbatch (Fiber grade)



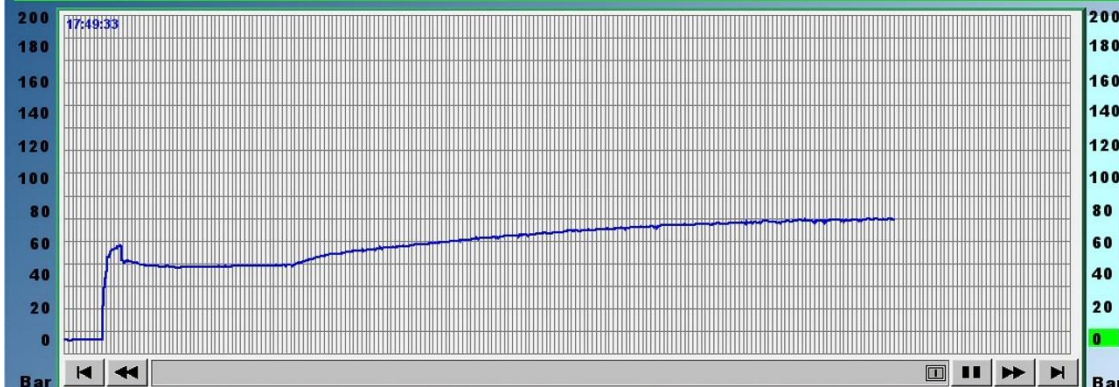
REISOL CODE	C.I. No.	DYE CONTENT %	POLYMER COMPATIBILITY		HEAT STABILITY	LIGHT FASTNESS
			PET	PBT	C°	1-8
MPT464	Solvent Blue 97	30-40%	■	■	300	7-8
MPT401	Solvent Blue 104	30-40%	■	■	300	7
MPT402	Solvent Blue 122	30-40%	■	■	290	8
MPT1435	Pigment Blue 15:3	30%	■	■	300	8
MPT516	Solvent Violet 13	30-40%	■	■	290	8
MPT561	Solvent Violet 31	30-40%	■	■	290	7
MPT536	Solvent Violet 36	30-40%	■	■	300	7-8
MPT501	Disperse Violet 57	30-40%	■	■	290	7
MPT556	Solvent Violet 59	30-40%	■	■	280	7
MPT640	Solvent Orange 60	30-40%	■	■	300	7-8
MPT636	Solvent Orange 63	30-40%	■	■	300	4-5
MPT6320	Solvent Orange 107	30-40%	■	■	300	7-8
MPT743	Solvent Brown 53	30-40%	■	■	300	8
MPT1304	Pigment Green 7	30%	■	■	300	8



Graph A. Typical FPV – M1200-2 (PR122 40% MB)



材料编号: M1200-2 (PR122_40%_PPMB)		压滤值试验测试 BS EN 13900-5:2005		测试日期: 2022/4 /29 17:49:49	
泵前温度°C	249.7	泵体温度°C	249.9	泵前熔体°C	246.5
泵后熔体°C	261.6	泵前压力 bar	19.69	泵体转速 rpm	0.0
着色剂量 (Mc) g	60.0	泵后压力 bar	12.10	螺杆转速 rpm	0.0
熔体流量 cm ³ /min	0.0	启动压力 (PS) bar	51.55	最大压力 (Pmax) bar	79.90
FPV bar/g	0.473				



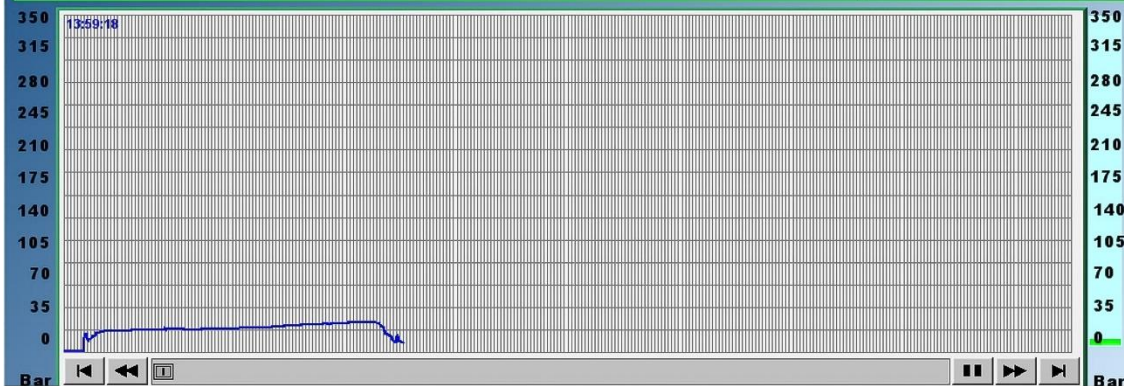
Test Standard	BS EN 13900-5:2005	Product	M1200-2
Test Carrier	PP	Mesh No.	1400 mesh
Pigment Loaded %	10%	Pigment Loaded wt.	60g



Graph B. Typical FPV – M620-2 (PV23 40% MB)



材料编号: M620-2 (PV23_40%_PPMB)		压滤值试验测试 BS EN 13900-5:2005		测试日期: 2022/6/19 13:59:21			
泵前温度°C	249.9	泵体温度°C	249.4	泵前熔体°C	252.5	泵后熔体°C	260.9
泵前压力 bar	3.63	泵体转速 rpm	7.5	着色剂量 (Mc) g	60.0		
泵后压力 bar	9.18	螺杆转速 rpm	0.6	熔体流量 cm ³ /min	50.6		
启动压力 (PS) bar	22.69	最大压力 (Pmax) bar	31.42	FPV bar/g	0.146		



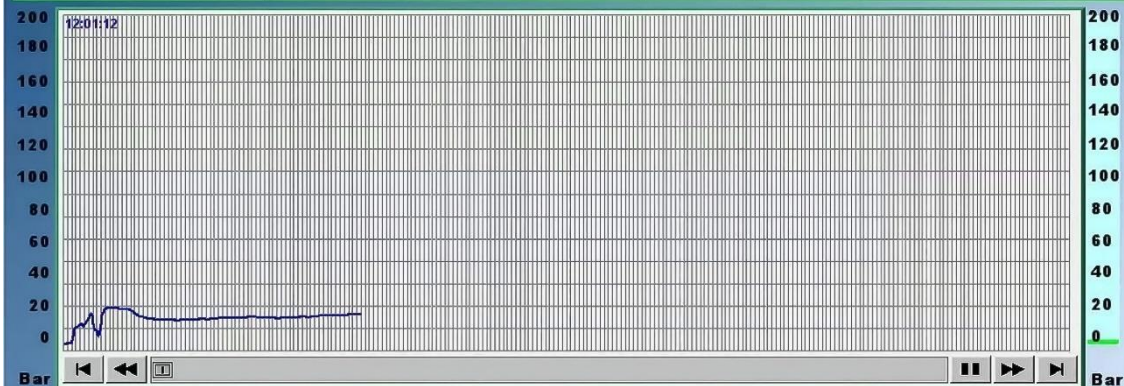
Test Standard	BS EN 13900-5:2005	Product	M620-2
Test Carrier	LDPE	Mesh No.	1400 mesh
Pigment Loaded %	10%	Pigment Loaded wt.	60g



Graph C. Typical FPV – M436-2 (PB15:3 40% MB)



材料编号: M436-2 (PB15:3_40%_PPMB)		压滤值试验测试 BS EN 13900-5:2005		测试日期: 2021/9 /26 12:01:54			
泵前温度°C	250.0	泵体温度°C	249.7	泵前熔体°C	258.9	泵后熔体°C	264.7
泵前压力 bar	5.06	泵体转速 rpm	0.0	着色剂量 (Mc) g	60.0		
泵后压力 bar	4.16	螺杆转速 rpm	0.0	熔体流量 cm ³ /min	0.0		
启动压力 (PS) bar	4.35	最大压力 (Pmax) bar	25.54	FPV bar/g	0.353		



Test Standard	BS EN 13900-5:2005	Product	PB15:3 40% PE MONO
Test Carrier	LDPE	Mesh No.	1400 mesh
Pigment Loaded %	25%	Pigment Loaded wt.	60g



QC System



Quality Control is fundamental to Precise

It has been over 16 years since Precise Group set up its first color test lab. In the past long years, we introduced, learned and improved our test methods, in order to follow up the most advantaged production technology and meet customers requirements. To fulfill our mission 'offer the world clean and easy-use colorants', we are still putting efforts into our R&D and Q/C system. Now our regular tests involve color shade, color strength, heat resistance, migration, weather fastness, FPV and dispersibility, particle size distribution, MFI/MFR, moisture, melt point, solubility, pH etc.



QC System



AGING
TESTER

MFI/MFR
TESTER



DISPERS
-ION TEST

FPV
TESTER



MOISTURE
TESTER

COLOR
OMETER





QC System



INJECTION
MACHINE



SPINNING
MACHINE



TENSILE
FORCE
TESTER





Factory Tour





Contact us



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Now!*

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