Chrostiki

Blending Creativity with Technology since 1959

Mastertint®
Black Masterbatches

Mastertint® Black masterbatches contain furnace type carbon black pigments finely dispersed in thermoplastic polymer carrier resins. Carbon black is the most efficient and economical additive for protecting thermoplastics from ultra violet radiation. It is also a very intense and opaque black pigment. Different carbon black grades are selected to obtain the desired opacity, jetness, and purity or use cost. Some products also contain an exceptionally soft micronised calcium carbonate of high purity, which acts as antiblocking agent, speeds up cooling and lowers use cost.

Quality assurance

All **Mastertint® Black** masterbatches are strictly controlled for carbon black content, dispersion quality, volatiles, bulking density, pellet quality and size in order to ensure trouble free processing and top performance.

Product range / Applications

There are three main types of carbon black pigments:

- **SRF** (particle size 57-60nm) is a moderate coverage and strength carbon black with moderate UV resistance properties. Products that contain this "soft" and blue tone carbon black are recommended mainly for color ation and for economical applications.
- **HAF** (particle size 25-30nm) is a good coverage and strength carbon black with good UV resistance properties.
- **P** (particle size 20nm) is a maximum coverage and strength carbon black with maximum UV resistance properties. This type is approved for food contact and potable water applications.

Additives such as antioxidants and fluorinated polymer processing agents are incorporated in certain **Mastertint® Black** masterbatches to modify their performance for specific applications.

An extensive standard range of Mastertint Black masterbatches is available in PE, PP, PS, EVA, PVC-P, PET and Universal carrier, as presented in the Product Selection Chart.

Best results are obtained with masterbatches based on the same carrier resin as the polymer to be colored. Mastertint KU black masterbatches are based on a truly universal carrier that is compatible with all polymers, even engineering polymers, and can be processed up to 310°C.

The standard range covers a wide spectrum of applications including blown and cast film, tapes and fibers, pipes, cables, sheet extrusion for thermoforming, blow and injection molding and compounding.

Recommended addition levels: coloring 1-5%

For optimum protection of polyolefins from UV radiation, carbon black content in the final product should be 2-2.5%. Finer particle size carbon blacks provide better UV protection.

Food packaging status

Specific Mastertint Black masterbatches are recommended for food contact applications.
Detailed information will be supplied on request.

Product description						Applications
Code	**Carrier**	**% Carbon Black**	**Carbon Black Type**	**$CaCO_3$**	**Special Features**	
KE-9041	LDPE	40	SRF	Yes	Good opacity Very economical product Antiblocking effect	• PE down to 40µm thikness • Low-pressure LDPE Pipes • HDPE Pipes for cable protection • Injection and blow molding
KL-9150	LLDPE	50	SRF	No	Extra opacity and surface gloss	• PE with good surface gloss down to 20µm • Agricultural film • Irrigation pipes • Low-pressure LDPE Pipes • Injection and blow molding
KE-9320	LDPE	20	HAF	Yes	High opacity and jetness	• PE down to 40µm thickness • Recycling • Injection and blow molding
KE-9340	LDPE	40	HAF	No	Good jetness and opacity Improved jet stability Contains antioxidant	• PE film • Injection and blow molding • UV stabilization of articles (Pipes & PE film)
KL-9520HF	LLDPE	20	P	No	Very high flow	• Injection-molding for easy dilution

Product description						Applications
Code	Carrier	% Carbon Black	Carbon Black Type	$CaCO_3$	Special Features	
KL-9540	LLDPE	40	P	No	High quality and jetness Suitable for food contact	• Thin film down to 15μm • Agricultural film • Pipes for Portable water
KL-9540F	LLDPE	40	P	No	Excellent dispersion and flow. High UV protection	• Fibers
KP-9530	PP	30	P	No	High jetness and opacity. High flow.	• Suitable for fittings of portable water pipes
KS-9530	PS	30	P	No	High jetness and opacity.	• Injection-molding • Extrusion
KT-9530	PET	30	P	No	High jetness and opacity.	• Fibre • Film • Sheet • Molding
KU-9525	Universal	25	P	No	Compatible with all polymers, even engineering plastics Can be processed up to 310° C	• Injection-molding • Extrusion
KU-9635	Universal	35	Specialty	No	Extra blue tone, high jetness for PA, ABS, SAN, POM, PC, PBT, PET, POs, TPE and TPU	• Extrusion and molding
KX-9515	EVA	15	P	Yes	Can be processed up to 260° C	• PVC compounds • Injection-molding • Extrusion profile
KX-9540	EVA	40	P	No		
KV-9005	PVC-P			Yes	Close match to RAL 9005	• PVC-P cables
KV-9520	PVC-P	20	P	Yes	High jetness and opacity.	• PVC-P cables

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