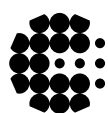




Black Masterbatches
for drip irrigation pipes



Global Colors

Mastering Drip Irrigation with Black Masterbatch Solutions



Drip irrigation pipes and tubing is the most convenient, economical and popular way for effective water usage management ensuring increased crop yields. Irrigation systems can be installed above or under the ground and besides water can also convey agrochemicals and fertilizers to the plants. Typical diameters vary from 16mm-25mm while thicknesses vary from 150mm-500mm for tubing (tapes) or 0,5mm -1,3mm for round drip irrigation pipes. Drip irrigation pipes and tubing are operating under low pressures (0.5 - 4 bars).



With the appropriate selection of carrier resins, additives and carbon black types, Kritilen® Black masterbatches provide excellent weathering and heat resistance, smoother surface even at high production speeds and optimized mechanical properties to drip irrigation pipes, tubing and laterals.

Products and Applications

a) KRITILEN® BLACK 354

BLACK 354 contains 50% of a specially selected SRF carbon black, finely dispersed in LLDPE carrier. It also contains polymer processing aid (PPA) ensuring smooth surface finish at high production speeds. Its optimized rheological properties make it ideal for thin irrigation tapes (150-500µm)

b) KRITILEN® BLACK A354 / A3545 /A3552

BLACK A354/A3545 contain 50% of a specially selected SRF carbon black plus polymer processing aid and a substantial antioxidant package which makes them ideal for thin wall drip irrigation tapes and pipes when recycled materials are used. BLACK A3545 with an enhanced processing aid package is the ideal solution for high production speeds.

Black A3552 contains 55% SRF carbon black plus antioxidants combined with an advanced processing aid for even more demanding production requirements.

c) KRITILEN® BLACK A445

BLACK A445 contains 40% of a small particle size carbon black together with antioxidants and processing aid. It can be used for thicker, round drip irrigation pipes ensuring superior weather resistance and mechanical properties.



d) KRITILEN® BLACK A4413P, KRITILEN® BLACK A4434P and KRITILEN BLACK A4526P

BLACK A4413P contain 40% P-type carbon black together with antioxidants and processing aid. Its excellent dispersion and optimized rheological properties ensure trouble free production at high speeds and due to carbon black selection superior weathering performance.

Black A4434P and A4526P contain 40% and 45% respectively of an extra pure P type carbon black combined with antioxidants and processing aid making them ideal solutions for more demanding, long-lasting, high-quality drip irrigation pipes and tapes

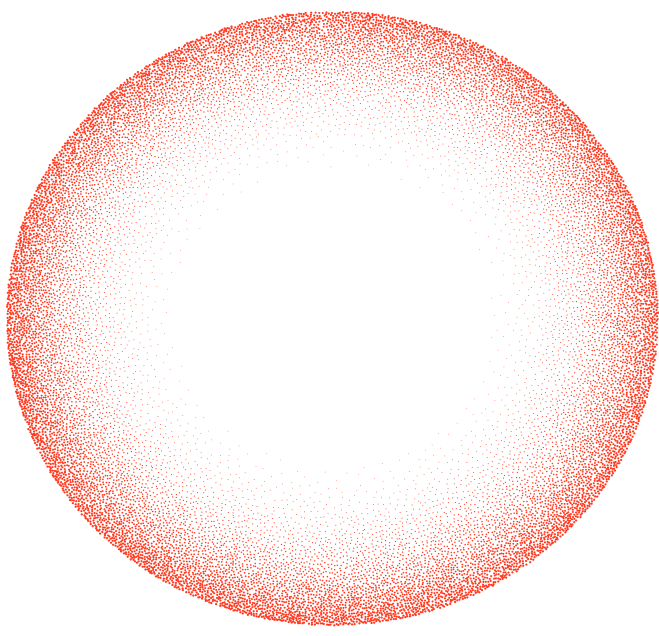
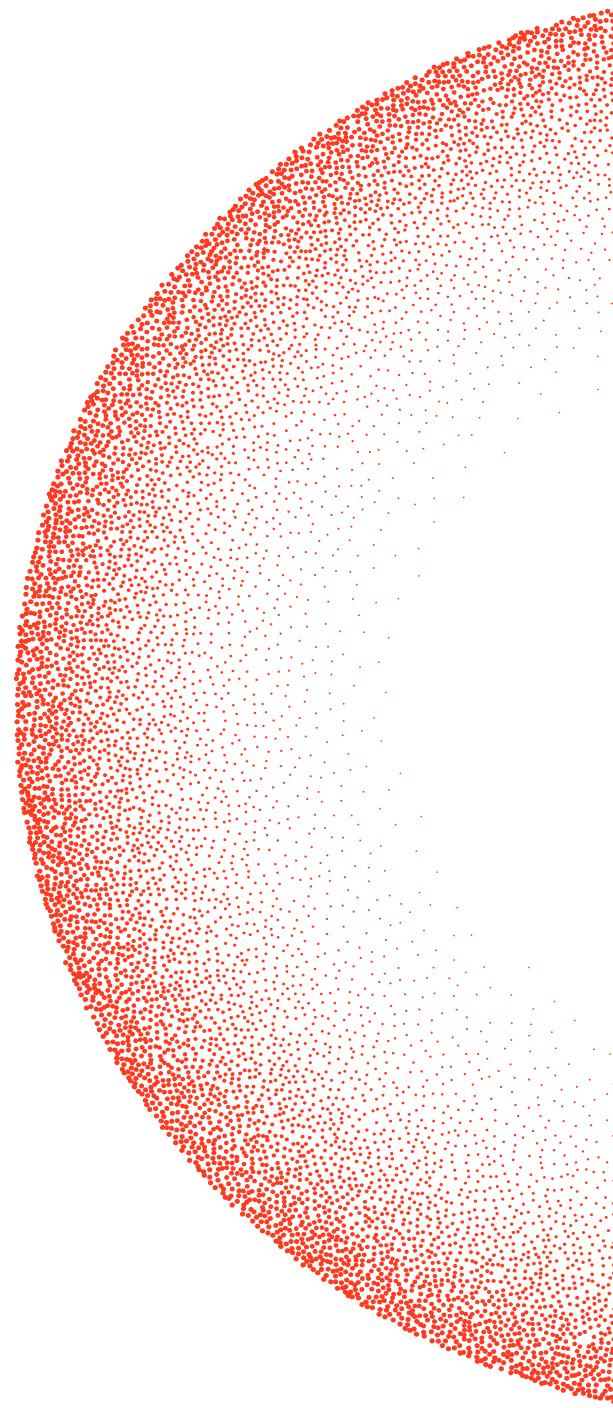
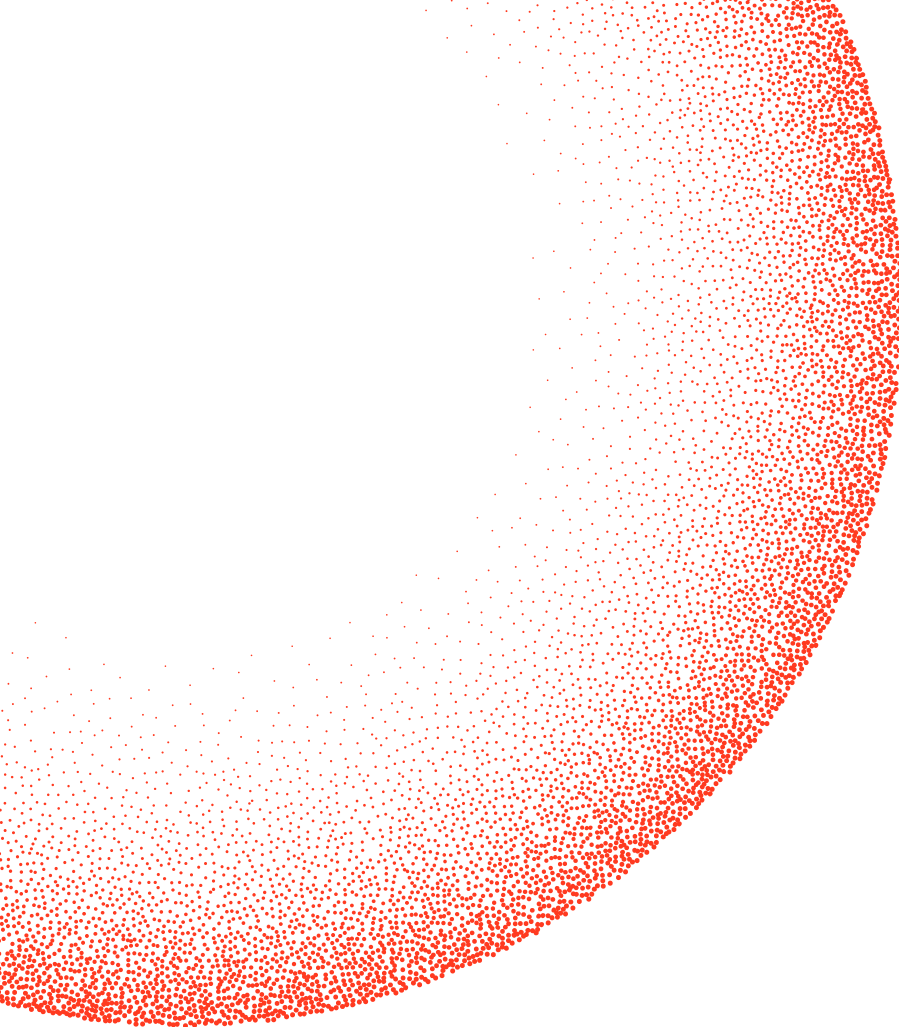
The information and suggestions contained herein are the result of our experience, knowledge and research. They are believed to be reliable and are given in good faith. However, no warranty is provided, as the conditions under which our products are used are beyond our control.

Product Range

Masterbatches for Drip Irrigation Pipes and Tubing

KRITILEN® BLACK	Carrier	Carbon black type	Additives	Carbon black content (%)	Addition rate (%)	Applications		
						Thin wall Drip Irrigation tapes	Thin wall Drip Irrigation tapes (with recycled)	Thick wall Drip Irrigation pipes and laterals
354	LLDPE	SRF	PPA	50	5	•	•	◦
A354/A3545	LLDPE	SRF	AO/PPA	50	5	•	•	◦
A3552	LLDPE	SRF	AO/PPA	55	4,5	•	•	◦
A445	LLDPE	RCF	AO/PPA	40	6	◦	◦	•
A4413P	LLDPE	P-type	AO/PPA	40	6	•	•	•
A4434 P	LLDPE	High Purity P-type	AO/PPA	40	6	•	•	•
A4526P	LLDPE	High Purity P-type	AO/PPA	45	5-5,5	•	•	•

• Recommended
◦ Can be used



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