

The assortment of BASCO® black polyolefin masterbatches consists of three main groups: premium, standard and economy grades. They have good opacity and deep black colour.

Black masterbatches of premium grades contain LLDPE and up to 50% of high quality carbon black (PF1910/03-LP, PF1910/05-LP, PF1910/07-LP, PF1910/22-LP, etc). They are recommended for colouring thin and multilayer PE-films, including milk packages. These PE-films have high opacity and good mechanical properties. PF1910/03-LP contains local high quality carbon black and is the most economic. PF1910/05-LP contains European P-type carbon black and provides the maximum quality and organoleptic properties. PF1910/07-LP is used for stretch films and silanol-cross-linking compounds. We also recommend to use masterbatch PF1901/09-LP with 50% carbon black for colouring thin and multilayer PE-films.

Black film quality masterbatches contain up to 50% carbon black. These masterbatches are used for colouring polyolefin films and also extrusion, injection molding and blow molding goods from polyolefins. Special economy grades (PF1901/07-PE, PF1901/10-PE, P1901/22-PE etc), containing 20-30% high quality carbon black and micronized calcium carbonate, are available for colouring LDPE and HDPE films (packaging bags). The recommended dosage is 2-4% depending on the film thickness.

Black polystyrene masterbatches are used for colouring extrusion and injection molding goods from polystyrene plastics such as GPPS, HIPS, SAN, ABS. P3901/01-PS is a grade for injection molding. P3901/10-PS has higher MFR. The polymer base is GPPS. The content of carbon black is 30%. The recommended dosage is 1-2%.

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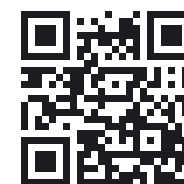
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Scientific & Production Company BARS-2 is a leader of Russian and CIS market of masterbatches. Founded in 1992, our company focuses its activity on development and production of color and additive masterbatches (MB) for coloring and modification of thermoplastic polymers.

Today BARS-2 has several production plants in Russia. BARS-2 Quality Management System is in accordance with requirements of ISO 9001-2008 in IQNET system since 2004.

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# BASCO® Black Masterbatches

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## Premium grades

Grade	Polymer base	Carbon Black type	Carbon Black, %	CaCO <sub>3</sub> , %	MFR, g/10 min (21,6; 190°C; 1,18mm)	Optical density	Filter-pressure test, bar/g	Application
PF1910/03-LP	LLDPE	ISAF	40	-	10±5	0,55±0,08	5,0±3,0 (5 mcm)	Multilayer films, including milk packages, lamination films
PF1910/05-LP	LLDPE	P-type	40	-	15±5	0,57±0,08	3,0±1,5 (5 mcm)	
PF1910/07-LP	LLDPE	ISAF	40	-	5,0±1,5	0,54±0,08	5,0±2,0 (5 mcm)	Stretch films, multilayer films, silanol-crosslinking compounds
PF1910/02-LP	LLDPE	ISAF	40	-	10±5 (21,6; 190°C; 2,095 mm)	0,65±0,08	5,0±3,0 (5 mcm)	Light stabilization polymer pipes
PF1910/22-LP	LLDPE	P-type	40	-	10,0±2,0	0,56±0,08	2,0±1,0 (5 mcm)	Fibers, stretch films, thin & multilayer films

## Standard grades

Grade	Polymer base	Carbon Black type	Carbon Black, %	CaCO <sub>3</sub> , %	MFR, g/10 min	Optical density	Filter-pressure test, bar/g	Application
PF1901/09-PE	LDPE	HAF/ FEF	50	-	6±3 (21,6; 190°C; 1,18mm)	0,55±0,08	4,0±0,5 (10 mcm)	Pipe and cable PE-compounds, water pressure pipes
PF1901/05-PE	LDPE	HAF/ FEF	40	-	45±10 (21,6; 190°C)	0,53±0,08	8,0±2,0 (5 mcm)	Extrusion and injection molding goods from polyolefins, packaging films, HDPE and LDPE packaging bags
PF1901/03-PE	LDPE	HAF/ FEF	45	-	35±10 (21,6; 190°C)	0,55±0,08	4,0±0,5 (15 mcm)	
PF1901/06-PE	LDPE	FEF	35	20	3,0±1,0 (21,6; 190°C; 1,18mm)	0,50±0,08	8,0±2,0 (15 mcm)	
P3901/01-PS	GPP	ISAF	30	-	20±5 (5,0; 200°C)	-	-	Extrusion and injection molding goods from polystyrene plastics
P3901/10-PS	GPP	ISAF	30	-	30±10 (5,0; 200°C)	-	-	

## Economy grades

Grade	Polymer base	Carbon Black type	Carbon Black, %	CaCO <sub>3</sub> , %	MFR, g/10 min (21,6; 190°C)	Optical density	Filter-pressure test, bar/g	Application
PF1901/07-PE	LDPE	FEF	30	35	10±3 (1,18 mm)	0,35±0,05	3,0±1,0 (15 mcm)	Extrusion and injection molding goods from polyolefins, packaging films, HDPE and LDPE packaging bags
PF1901/10-PE	LDPE	HAF	20	55	8±2 (1,18 mm)	0,40±0,05	7,0±2,0 (15mcm)	
P1901/22-PE	LDPE	HAF	20	50	17±5	0,40±0,08	1,0±0,5(15 mcm)	
P1901/39-PE	LDPE	HAF	15	55	12±4 (1,18 mm)	0,30±0,08	6,0±0,5(25 mcm)	