CABOT

SPECIALTY CARBON BLACKS

ELFTEX P100 Specialty Carbon Black

Product Highlights

ELFTEX® P100 specialty carbon black is a p-type carbon black suitable for use in pressure pipe applications, particularly those that follow ISO4427 and ISO4437 standards that specify maximum particle size, sulfur content, and dispersion requirements. P-type carbon blacks are specialty blacks with narrow product specifications for applications requiring exceptional UV performance and excellent physical and chemical cleanliness.

Key Applications

ELFTEX P100 specialty carbon black is especially suited for use in plastic products requiring excellent UV protection. Key applications include:

- Pressure pipe for potable water and gas
- Irrigation pipe
- Utility pipe
- Geomembranes

Performance Features

ELFTEX P100 specialty carbon back enables low moisture absorption in the compound and its morphology delivers good processability, due to lower viscosity, enabling smooth surfaces in end products. In summary, ELFTEX P100 specialty carbon black has:

- Low sulfur and toluene
- Low grit and ash
- Particle size less than 25 nm
- Excellent UV performance

For end products, it:

- Enables low compound moisture absorption
- Enables higher MFI than other p-type carbon blacks for superior processability

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUES	TEST METHOD
Iodine number (mg/g)	79	ASTM D-1510
OAN (cc/100g)	104	ASTM D-2414
Moisture as packed (%)	<1.0	ASTM D-1509
325 mesh residue (ppm)	<20	ASTM D-1514
Ash (%)	<0.1	ASTM D-1506
Total sulfur (%)	<0.1	CTM 15.71*
Particle size (nm)	<25	ASTM D-3849
Toluene extract (%)	<0.03	ASTM D-1618

* Tests are performed according to Cabot Test Methods (CTM).

ELFTEX® P100 Specialty Carbon Black

Product Form & Logistics

- Product Form: Pellets
- Regional availability: Global
- Bag Packaging Options: 20 kg bags
- Bulk Packaging Options: 500 kg FIBC

For information on product-specific storage conditions, please refer to the applicable Safety Data Sheet (SDS) available from your Cabot representative.

CABOT

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