

BLACK PEARLS® 4750 Specialty Carbon Black



Product Highlights

BLACK PEARLS 4750 specialty carbon black is suitable for use in plastic materials that are intended to comply with U.S. Food & Drug Administration (FDA) requirements (21 CFR 178.3297). This FDA section requires high purity furnace blacks to meet certain purity levels for polycyclic aromatic hydrocarbons (PAHs) and limits use to final loadings less than 2.5%.

The purity requirements to meet are defined as follows:

- ◆ Total polyaromatic hydrocarbons (PAHs) not to exceed 0.5 parts per million (ppm)
- ◆ Benzo[a]pyrene not to exceed 5.0 parts per billion (ppb)

Key Applications

BLACK PEARLS 4750 specialty carbon black can be used in plastics food contact applications where FDA requirements are needed. This product also complies with regional food contact legislation such as European Union (Reg. No. 10/2011), Japan, China, and other regions. Example applications include:

- ◆ Rigid food packaging
- ◆ Flexible food packaging
- ◆ Thermoformed trays
- ◆ Non-food applications where high purity is desired such as parts that carry the GS (Geprüfte Sicherheit) Mark Certification and Regulation (EU) No 1272/2013, amending Annex XVII of REACH Regulation

Cabot Corporation uses a robust testing protocol to certify that BLACK PEARLS 4750 specialty carbon black meets the required purity levels and can be used in FDA plastics applications.

Performance Features

BLACK PEARLS 4750 specialty carbon black exhibits jetness and blue undertone similar to our BLACK PEARLS® 880, enabling exceptional color and opacity performance in end products.

A product with similar morphology, MONARCH® 4750 specialty carbon black, is available in an easier-to-disperse fluffy form.

More information on our food contact products can be found in our brochure, "Specialty Carbon Blacks for Food Contact Applications in Plastics."

BLACK PEARLS® 4750 Specialty Carbon Black

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUES	TEST METHOD
Iodine number (mg/g)	258	ASTM D-1510
OAN (cc/100g)	117	ASTM D-2414
Tint (%)	142	ASTM D-3265
325 mesh residue	<0.5	ASTM D-1514

The data in the table above are typical test values intended as guidance only; they are not product specifications. Product specifications are available upon request from your Cabot representative.

Product Form & Logistics

- ◆ Product Form: Pellets (A non-pelletized carbon black with similar morphology is available as MONARCH® 4750 specialty carbon black)
- ◆ Regional availability: Global
- ◆ Bag Packaging Options: 20 kg bags
- ◆ Bulk Packaging Options: 450 kg IBC

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

A Cabot issued food contact statement for BLACK PEARLS 4750 specialty carbon black is available from your Cabot representative.

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