

BLACK PEARLS® 4350 Specialty Carbon Black



Product Highlights

BLACK PEARLS 4350 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 4350 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 4350 specialty carbon black meets the required purity levels and can be used in FDA plastics applications.

Performance Features

BLACK PEARLS 4350 specialty carbon black exhibits a similar level of jetness and blue undertone as Cabot's ELFTEx®570 specialty carbon black, enabling good color and covering power. In addition, it has excellent dispersability and masterbatch dilutability.

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

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TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUES	TEST METHOD
Iodine number (mg/g)	116	ASTM D-1510
OAN (cc/100g)	70	ASTM D-2414
Tint (%)	118	ASTM D-3265

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
- ◆ 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 4350 specialty carbon black is available from your Cabot representative.

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www.cabotcorp.com

NORTH AMERICA

Cabot Corporation Business
and Technical Center
157 Concord Road
Billerica, MA 01821-7001
USA

TEL +1 800 462 2313
FAX +1 978 670 7035

SOUTH AMERICA

Cabot Latin American
Division
Rue do Paraiso, 148 -
5º andar
04103-000, Sao Paulo,
SP BRAZIL

TEL +55 11 2144 6400
FAX +55 11 3253 0051

EUROPE

SIA Cabot Latvia
101 Mukusalas Street
Riga, LV-1004,
LATVIA

TEL +371 6705 0984
TEL +371 6705 0900
FAX +371 6705 0985

MIDDLE EAST/AFRICA

Cabot Specialty Chemicals
Jebel Ali Free Zone
LOB 15, Office 424
Dubai
UNITED ARAB EMIRATES

TEL +971 4 8871 800
FAX +971 4 8871 801

ASIA PACIFIC

Cabot China Ltd.
558 Shuangbai Road
Shanghai 201108,
CHINA

TEL +86 21 5175 8800
FAX +86 21 6434 5532

JAPAN

Cabot Specialty Chemicals, Inc.
Sumitomo Chiba-Daimon Bldg. 3F
2-5-5 Shiba Daimon,
Minato-ku, Tokyo 105-0012,
JAPAN

TEL +81 3 6820 0255
FAX +81 3 5425 4500

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