

Product Highlight

COMPOUND# EE30476F

75 Durometer FDA Compliant Black AFLAS®
Fluoroelastomer Compound



In July of 2019, AGC Chemicals Americas, Inc. announced several grades of AFLAS® that are now listed on the Food and Drug Administration compliance list. They have been approved by the FDA for contact with food, making them an ideal material for parts like seals that are used in food processing applications where heat and/or aggressive chemicals will quickly degrade other types of rubber.



AFLAS® has always been known for its outstanding chemical resistance, and now, with FDA compliance, the food processing industry will be particularly interested in the chemical resistant property to oils and lubricants, steam/hot water, acids, bases, bleaches, alcohols, and many types of solvents.

Eagle Elastomer has formulated the compound **EE30476F** using ingredients listed as GRAS on the FDA register for food contact. We performed extrusion trials and found that we were able to extrude with a good finish. We also sent this material to have it extracted tested to parameters of 21 CFR 177.2600 (e) and (h).

EAGLE ELASTOMER PRODUCTS AVAILABLE USING AFLAS® FDA MATERIAL

- Custom mixed and preformed compounds for molding
- Extruded O-ring cord and profiles
- Splicing compound for vulcanizing extrusions
- Pump and fluid transfer tubing
- Wire and cable jacketing
- Cured sheeting for cut gaskets

> TECHNICAL DATA PROVIDED ON REVERSE SIDE

Eagle Elastomer is driven by customer satisfaction.

Our philosophy on quality dictates everything we do.



Call, email, or visit us online to learn more about our extrusions, sheet products, and custom mixing options available to fit your needs.

WHY CHOOSE EAGLE ELASTOMER?

We are committed to producing the highest quality, cost-effective solutions for applications requiring unique characteristics of fluoroelastomers. For over 35 years, Eagle Elastomer has been manufacturing fluoroelastomer compounds and products that require excellent sealing properties in applications requiring high temperature and chemical resistance in a wide range of global markets. These markets include oil and gas, chemical processing, aerospace, automotive, agriculture, semiconductor, mining, food and beverage, power generation, wire and cable, pharmaceutical, and military to name a few.

EAGLE ELASTOMER INC. | 70 Cuyahoga Falls Industrial Parkway | Peninsula, OH 44264
www.eagleelastomer.com | E eagle1@eagleelastomer.com | P 330.923.7070 | F 330.923.4005

AFLAS® is a registered trademark of AGC Inc.

Technical Data Sheet

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APPLICATION TEMPERATURES

High Temp: 400° F (205° C)

COMPOUND INFORMATION

% Fluorine: 57%
Cure System: Peroxide
Color: Black
Compounded for: Extrusion, transfer, injection & compression molding
Form: Slab, strip or calendered sheet
Storage: Preserves best when stored in a cool/dry environment
Rheometer retesting suggested @ 6 months

TYPICAL RHEOLOGICAL PROPERTIES

Conditions: MDR .5 ARC 6 minutes @ 370° F (188° C) per ASTM D-6204
Min Torque: 1.37 inch/lbs
Max Torque: 7.65 inch/lbs
Scorch Ts1: 0.69 minutes
Cure Tc90: 2.65 minutes

TYPICAL PHYSICAL PROPERTIES

Conditions: Press cured 20 minutes @ 350° F (176° C) and
Post cured for 16 hours @ 480° F (250° C)
Tensile Strength (per ASTM D-412): 1844 PSI (12.7 Mpa)
100% Modulus (per ASTM D-412): 552 PSI (3.8 Mpa)
Ultimate Elongation (per ASTM D-412): 419%
Shore A Hardness (per ASTM D-2240): 74 Pts.
Specific Gravity (per ASTM D-297): 1.86 (H2O=1)

This information is based on tests performed by Eagle Elastomer, Inc. and vendors that we believe are reliable. Your results may vary due to differences in equipment, test types or conditions. It is intended for persons having technical skill and at their own discretion or risk. You must evaluate and determine whether this compound is suitable for your intended application.

We appreciate your interest in our products manufactured to meet the FDA's requirements for repeated food contact. Eagle Elastomer developed compound EE30476F to meet the requirements set forth by 21 CFR 177.2600. The compound as supplied by Eagle Elastomer, Inc. will be produced using only ingredients from the FDA's list of allowable materials and within the limits specified by the FDA. While this is sufficient to ensure the raw compound, as supplied by Eagle Elastomer is FDA compliant, it may not be sufficient to ensure our customer's products are FDA compliant. It is the customer's responsibility to determine the exact tests and test specimens necessary to ensure their products are FDA compliant.

CAUTION: Do not use products manufactured from EE30476F in medical applications involving implantation in the human body or in direct contact with human bodily fluids or tissues. For other medical applications, discuss with your Eagle Elastomer, Inc. customer service representative.



Manufactured in the U.S.A.