



P.O. BOX 939
Cuyahoga Falls, OH 44223, U.S.A.

Technical Data Sheet

Contact Us: Phone: 330-923-7070
Fax: 330-923-4005
E-mail: eagle1@eagleelastomer.com
Web: www.eagleelastomer.com

COMPOUND#: EE56162A

Description: 60 durometer brown FDA Dyneon fluoroelastomer compound.

We appreciate your interest in our products manufactured to meet the FDA's requirements for repeated food contact. Eagle Elastomer developed compound EE56162A 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 EE56162A 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.

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.



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Description: 60 durometer brown FDA fluoroelastomer compound.

Application Temperatures: **High Temp:** 400° F (205° C)
Low Temp: Dynamic: 21.2°F (-6°C) Static: 0.4°F(-18°C)

Compound Information:

- **% Fluorine:** 66%
- **Cure System:** Bisphenol
- **Color:** Brown
- **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.
- **Cured products** O-ring cord, tubing, & profiles

Typical Rheological Properties:

Conditions: MDR .5 ARC 3 minutes @ 370° F (188° C) Per ASTM D-6204.

- **Min torque:** 0.80 **Inch/lbs.**
- **Max torque:** 7.15 **Inch/lbs.**
- **Scorch Ts1:** 0.97 **Minutes.**
- **Cure Tc90:** 1.61 **Minutes.**

Typical Physical Properties:

▪ Conditions: Press cured 10 minutes @ 370° F (188° C) and Post cured for 16 hours @ 480° F (250 °C).

- **Tensile Strength** (Per ASTM D-412): 1658 **PSI** (11.4 **Mpa**)
- **100% Modulus** (Per ASTM D-412): 269 **PSI** (1.85 **Mpa**)
- **Ultimate Elongation** (Per ASTM D-412): 433 **%**
- **Shore A Hardness** (Per ASTM D-2240): 61 **Pts.**
- **Specific Gravity** (Per ASTM D-297): 2.00 (**H2O=1**)
- **Compression Set** (Per ASTM D-395): 19.10 **%** CONDITIONS: 22 hrs@ 392 °F (200°C)

Compounded to Meet:

- **ASTM D-2000 Call out:** M2HK 610 A1-10, B38, C12, EF31, EO78
INGREDIENTS ARE COMPLIANT WITH 21CFR 177.2600 AND/OR 21CFR 174.5 (D) (1).

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