
Cord Compound A75CD Data Sheet

Material: Tetrafluoroethylene-Propylene (AFLAS)
75 Durometer, Black

General Information:

This elastomer is a copolymer of tetrafluoroethylene (TFE) and propylene. AFLAS is unique due to its resistance to petroleum products, steam, phosphate esters and brake fluids. In some respects, it exhibits media compatibility properties similar to ethylene propylene and fluorocarbon. It has fair resistance to brake fluids and phosphate esters while exhibiting good resistance to petroleum oils.

Cure System: *Peroxide-cured*

Temperature Range: -10°C (14°F) to 204°C (400°F)

Attributes:

Color: Black

Durometer Shore A: 75±5

Shelf-life: Unlimited

Performs Well In:

- Petroleum fluids
- Brake fluids
- Bases
- Phosphate esters
- Amines
- Engine oils
- Steam and hot water
- Pulp and paper liquids

Doesn't Perform Well In:

- Aromatic fuels
- Ketones
- Chlorinated hydrocarbons

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Description: 75 durometer black AFLAS fluoroelastomer compound.

Application Temperatures: **High Temp:** 400° F (204° C)

Compound Information:

- **% Fluorine:** 57%
- **Cure System:** Peroxide
- **Color:** Black
- **Compounded for:** Molding:(Compression, Injection, Transfer) and Extrusion.
- **Form** Slab, Strip, Pre-form or Calendered Sheet.
- **Storage** Preserves best when stored in a cool/dry environment. Rheometer retesting suggested @ 6 months.
- **Cured Products** O-Ring Cord, Profiles, Sheet, and Tubing
- **Stock** Yes

Typical Rheological Properties:

Conditions: MDR .5 ARC 6 minutes @ 370° F (188° C) Per ASTM D-6204.

- **Min torque:** 1.34 **Inch/lbs.**
- **Max torque:** 7.66 **Inch/lbs.**
- **Scorch Ts1:** 0.60 **Minutes.**
- **Cure Tc90:** 2.60 **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): 1550 **PSI** (10.7 **Mpa**)
- **100% Modulus** (Per ASTM D-412): 750 **PSI** (5.2 **Mpa**)
- **Ultimate Elongation** (Per ASTM D-412): 355 %
- **Shore A Hardness** (Per ASTM D-2240): 76 **Pts.**
- **Specific Gravity** (Per ASTM D-297): 1.61 (**H2O=1**)
- **Compression Set** (Per ASTM D-395): 31.88 % **CONDITIONS: 22 hrs@ 392 °F (200°C)**

Compounded to Meet:

This information is based on tests performed by 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.