

FKM ELAFTOR 2001HV



Manufacturer:
"HaloPolymer Kirovo-Chepetsk", LLC

Synonyms: FKM26
Chemical composition: VDF+HFP
Cure type: Bisphenol, amine
HS code: 3904692000
CAS Number: 9011-17-0

Fluoroelastomer Elaftor 2001HV series is a HFP and VDF copolymer. It is Bisphenol AF cure incorporated medium-low viscosity fluoroelastomer, which is suitable for injection, compression moulding, transfermoulding, extrusion and calendaring.



Parameters of raw gum*:

| PROPERTIES | UNITS | TYPICAL VALUE | TEST METHOD |
|--|-------------------|---|-------------------------|
| Appearance | - | Pellets, sheets or lumps of agglutinated crumbs | - |
| Mooney viscosity, ML 1+10 @ 121°C / 250°F | MU | 130-165 | ISO 289-1 |
| Volatile loss | % wt. max | 0,5 | ISO 248 (120°C / 248°F) |
| Fluorine content | % wt. | 66 | Potentiometric |
| Specific gravity | g/sm ³ | 1,83 | ISO 2781, ASTM 792 |
| T glass transition | °C | -17 | ISO 22768 |

* These are typical properties and are not to be used for specification purpose.

Parameters of cured gum*:

press cure 10min @ 177°C / 350°F

post cure 24h @ 230°C / 446°F

| PROPERTIES | UNITS | TYPICAL VALUE | TEST METHOD |
|-------------------------|---------|---------------|----------------------------------|
| Tensile strength | MPa | 17 | ISO 37 |
| Elongation | % | 170 | ISO 37 |
| Compression set | % | 13 | ISO 815 (70h @ 200°C / 392°F) |
| Hardness | Shore A | 76 | ISO 48-4 |

*Properties of cured rubber are not to be used for specification purpose.

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Compound Formulation:

| FORMULATION | UNITS | TYPICAL VALUE |
|----------------------|-------|---------------|
| Rubber | Phr | 100 |
| Bisphenol AF | Phr | 2 |
| BTPPC | Phr | 0,6 |
| Ca(OH) ₂ | Phr | 6 |
| MgO | Phr | 3 |
| N-990MT Carbon Black | Phr | 30 |



Main application:

Elaftor 2001HV is an excellent choice for making O rings, gaskets, seals, diaphragms, membranes and other products.



Package:

Elaftor 2001HV is available in 22kg box



Safety and Handling:

- Handle in well-ventilated areas;
- Fumes must not be inhaled;
- Eye and skin contact must be avoided. In case of skin and eye contact wash with water immediately and seek medical help;
- Smoking is prohibited;
- Do not use metallic particulate as mixing agent as it can decompose at high temperature;
- Store away from heat, keep in clean and dry area.

Before using fluoroelastomer please read the Material Safety Data Sheet carefully.