



AKRON FKM FK1 is well suited for applications where excellent compression set and superior mold release are required. AKRON FKM FK1 can be used for compression and transfer moulding of O-rings, gaskets and seals. The product can be mixed using typical fluoroelastomers compounding ingredients and mixing can be accomplished with two-roll mills or internal mixers. AKRON FKM FK1 operating temperature range is from -10° to 220°C. The product is processed by compression molding.

Synonyms:FKM Chemical composition: TFE+PMVE+CSM Cure type:bisphenol A

Parameters of precompound*:

PROPERTIES	UNITS	TYPICAL VALUE	TEST METHOD
Appearance	-	Sheets	-
Mooney viscosity, ML 1+10 @ 121°C / 250°F	MU	30-60	ISO 289-1
Specific gravity	g/sm ³	2.1	ISO 2781
T glass transition	°C	-3	ISO 22768

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

Parameters of cured gum*:

press cure 40min @ 160°C / 320°F; post cure heating to 200°C during 3,5h and to 200°C during 16h; Heating to 260°C during 0,5h and to 260°C during 16h

PROPERTIES	UNITS	TYPICAL VALUE	TEST METHOD
Tensile strength	MPa	15.2	ASTMD 412
Elongation	%	182	ASTMD 412
Compression set	%	7.6	ASTMD 395
		8	ASTMD 395
Hardness	Shore A	76	ASTMD 1418

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

MAXMOLD[®] Group

FKM FK1



Compound Formulation:

FORMULATION	UNITS	TYPICAL VALUE
Rubber	Phr	100
Calcium Hydroxide	Phr	6
Мдо	Phr	3
N-990MT Carbon Black	Phr	30



Main application:

Package:

Valve gaskets, membranes, pumps, compressors in chemical and oil industries, other industries including paints and coatings, semiconductor applications

AKRON FK1 is available in 20kg 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 perfluoroelastomer please read the Material Safety Data Sheet carefully.

Material Safety Data Sheets (MSDS) are available by emailing us or contacting your sales representative. Always consult the appropriate MSDS beforeusing any of our products. Neither Akron Specialty Rubbers nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Akron's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some casesby Akron's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. All trademarks and registered trademarks are property of the companies that comprise Maxmold Group or their respective owners.

AKRON Rubber NO. 23 Ln. 434, Sec. 4, Zhonghua Rd., Xiangshan Dist., Hsinchu City 30094, Taiwan Tel:+886 3 5380817 E-mail: info@akronrubber.com

