

MAKSGO fluoroelastomer MFC-H6022

-Technical Data Sheet

MFC-H6022 is black color fluoroelastomer compound, hardness Shore A 55-65.

Based on bisphenol curable copolymers.

Characteristics:

- Excellent mold flow;
- Improved hot tear strength and metal-rubber bonding property;

Applications:

-Suitable for compression and transfer molding to produce oil seals where bonding adhesion required.

Working Temperature Range: -20 °C ~+220 °C

Lab Test Curing Condition:

Press Curing: 10min@170 °C.

Oven: 16hrs@230 °C

Typical values as below:

Physical Properties

Items	Test Method	Typical Value
Hardness, shore A	ASTM D-2240	63
tensile strength, MPa	ASTM D-412	13
Ultimate Elongation, %	ASTM D-412	250
Specific gravity, g/cm ³	ASTM D-297	1.92

Heating Aging, 70hrs x 250 °C

Change in Hardness, shore A	ASTM D-573	1
Change in tensile strength, %	ASTM D-573	10
Change in Elongation, %	ASTM D-573	-6

Fuel C Resistance, 70hrs x 23 °C

Change in Hardness, shore A	ASTM D-471	-4
Change in tensile strength, %	ASTM D-471	-9
Change in Elongation, %	ASTM D-471	-11
Change in Volume, %	ASTM D-471	+4

Compression Set, Aged 70 hours x 200 °C

6mm test buttons	ASTM D-395	20
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MAKSGO fluoroelastomer MFC-K7021

-Technical Data Sheet

MFC-K7021 is brown color fluoroelastomer compound, hardness Shore A 65-75.

Based on bisphenol curable copolymers.

Characteristics:

- Excellent mold flow;
- Improved mold release and good compression set;

Applications:

-Suitable for compression and transfer molding to produce O-rings and gaskets.

Working Temperature Range: -20 °C ~+220 °C

Lab Test Curing Condition:

Press Curing: 10min@170 °C.

Oven: 16hrs@230 °C

Typical values as below:

Physical Properties

Items	Test Method	Typical Value
Hardness, shore A	ASTM D-2240	72
tensile strength, MPa	ASTM D-412	14.5
Ultimate Elongation, %	ASTM D-412	195
Specific gravity, g/cm ³	ASTM D-297	2.08

Heating Aging, 70hrs x 250°C

Change in Hardness, shore A	ASTM D-573	1
Change in tensile strength, %	ASTM D-573	-5
Change in Elongation, %	ASTM D-573	+11

Fuel C Resistance, 70hrs x 23°C

Change in Hardness, shore A	ASTM D-471	-3
Change in tensile strength, %	ASTM D-471	-11
Change in Elongation, %	ASTM D-471	-12
Change in Volume, %	ASTM D-471	+3

Compression Set, Aged 70 hours x 200°C

6mm test buttons	ASTM D-395	16
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MAKSGO fluoroelastomer polymer MFG2600

-Technical Data Sheet

Fluoroelastomer MFG2600 series is raw copolymer of VF2 and HFP with fluorine content of 66%. It appears plate-like in white or off white color.

MFG2600 can be compounded into various color and hardness per different recipes. The compound can be followed by compression molding, injection molding, transfer molding and extrusion molding for finished parts which are good resistance to fuels, oils, lubricants, aqueous acids and excellent heat resistance.

Typical applications of fluoroelastomer are O-rings, packing, oil seals, manifold gasket, hose and other parts in automotive, chemical, oil field and aerospace industries.

Specification:

ITEMS	Typical Value					
	MFG2602			MFG2604		
	MFG2602-1	MFG2602-2	MFG2602-3	MFG2604-1	MFG2604-2	MFG2604-3
Mooney Viscosity [ML(1+10) @ 121°C]	120	145	175	65	75	85
Specific Gravity , g/cm ³	1.82			1.82		
Tensile Strength (Before Post Cure) ,MPa	≥ 8			≥7.5		
Elongation, %	220			200		
Compression set, % 200 °C x 24h, 20% compressed	≤15			≤18		

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