

Boda BDF631P

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDF631P is a medium to high viscosity curative incorporated fluoroelastomer copolymer. This grade is well suited for application where good hot tear resistance and excellent mold release are required. BDF631P can be compounded to meet the major fluoroelastomer specifications. BDF631P can be used for compression molding of oil seals or complicated geometries. It can be mixed using typical fluoroelastomer compounding ingredients. Mixing can be accomplished with two-roll mills or internal mixers. Finished goods can be produced by a variety of rubber processing methods.

General Information			
Features	Copolymer		
	Good tear strength		
	Good demoulding performance		
	Medium and high viscosity		
Uses	Composite		
	Seals		
Appearance	White		
Processing Method	Composite		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	
Mooney Viscosity (ML 1+10, 121°C)	60	MU	
Fluorine Content	66	%	
Solubility	LMW Ketones and esters		
MH ¹ (177°C)	2.30	N·m	
ML ² (177°C)	0.500	N·m	
t'90 ³ (177°C)	2.5	min	
ts2 ⁴ (177°C)	1.3	min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁵ (Shore A)	76		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ⁶ (Yield)	14.0	MPa	ASTM D412
Tensile Elongation ⁷ (Break)	260	%	ASTM D412
Compression Set (200°C, 70 hr)	18	%	ASTM D395B
Additional Information			

Test Compound:
Polymer: 100
MT Black (N990): 30 phr
MgO: 3 phr
Ca(OH)₂: 6 phr
Curing Condition:
Press: 10 min at 170°C
Oven: 24 hr at 230°C

NOTE

1.	MDR2000 Rheometer, 100cpm, 0.5° Arc, 6 minutes
2.	MDR2000 Rheometer, 100cpm, 0.5° Arc, 6 minutes
3.	MDR2000 Rheometer, 100cpm, 0.5° Arc, 6 minutes
4.	MDR2000 Rheometer, 100cpm, 0.5° Arc, 6 minutes
5.	Press Time: 10 min, Press Temperature: 170°C, Post Cure Time: 24 hr, Post Cure Temperature: 230°C
6.	Press Time: 10 min, Press Temperature: 170°C, Post Cure Time: 24 hr, Post Cure Temperature: 230°C
7.	Press Time: 10 min, Press Temperature: 170°C, Post Cure Time: 24 hr, Post Cure Temperature: 230°C

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