

# Boda BDF331P

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDF331P is a low to medium viscosity curative incorporated fluoroelastomer copolymer. This grade is well suited for application where good tear resistance and excellent process properties are required. BDF331P can be compounded to meet the major fluoroelastomer specifications. BDF331P can be used for compression molding or injection molding of complex 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		
	Workability, good		
	Good tear strength		
	Medium and low viscosity		
Uses	Composite		
Appearance	White		
Processing Method	Composite		
	Compression molding		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm <sup>3</sup>	
Mooney Viscosity (ML 1+10, 121°C)	30	MU	
Fluorine Content	66	%	
Solubility	LMW Ketones and esters		
MH <sup>1</sup> (177°C)	1.92	N·m	
ML <sup>2</sup> (177°C)	0.160	N·m	
t'90 <sup>3</sup> (177°C)	2.5	min	
ts2 <sup>4</sup> (177°C)	1.1	min	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>5</sup> (Shore A)	76		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>6</sup> (Yield)	13.5	MPa	ASTM D412
Tensile Elongation <sup>7</sup> (Break)	280	%	ASTM D412
Compression Set (200°C, 70 hr)	23	%	ASTM D395B

Additional Information			
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Test Compound:  
Polymer: 100  
MT Black (N990): 30 phr  
MgO: 3 phr  
Ca(OH)<sub>2</sub>: 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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