

# Boda BDF45P

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

## Message:

BDF45P is a medium viscosity curative incorporated fluoroelastomer copolymer.  
This grade is well suited for application where good hot tear resistance and fast cure rate are required. BDF45P can be compounded to meet the major fluoroelastomer specifications.  
BDF45P can be used for compression molding, extrusion and transfer molding of articles. 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		
	Fast curing		
	Good tear strength		
	Medium viscosity		
Uses	Composite		
Appearance	White		
Processing Method	Composite		
	Extrusion		
	Resin transfer molding		
	Compression molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm <sup>3</sup>	
Mooney Viscosity (ML 1+10, 121°C)	45	MU	
Fluorine Content	66	%	
Solubility	LMW Ketones and esters		
MH <sup>1</sup> (177°C)	2.18	N·m	
ML <sup>2</sup> (177°C)	0.400	N·m	
t'90 <sup>3</sup> (177°C)	1.8	min	
ts2 <sup>4</sup> (177°C)	50.0	sec	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>5</sup> (Shore A)	74		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>6</sup> (Yield)	14.5	MPa	ASTM D412
Tensile Elongation <sup>7</sup> (Break)	270	%	ASTM D412
Compression Set (200°C, 70 hr)	20	%	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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