

# Boda BDF25CP

## Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

### Message:

BDF25CP is a low viscosity curative incorporated fluoroelastomer copolymer.

BDF25CP is a general purpose grade, well suited for application where good flowability and processing property are required. It can be compounded to meet the major fluoroelastomer specifications.

BDF25CP can be used for compression molding of general purposes. 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	Low viscosity		
	Copolymer		
	Workability, good		
	Good liquidity		
	General		
Uses	Composite		
	General		
Appearance	White		
Processing Method	Composite		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm <sup>3</sup>	
Mooney Viscosity (ML 1+10, 121°C)	25	MU	
Fluorine Content	66	%	
Solubility	LMW Ketones and esters		
MH <sup>1</sup> (177°C)	1.80	N·m	
ML <sup>2</sup> (177°C)	0.250	N·m	
t'90 <sup>3</sup> (177°C)	1.6	min	
ts2 <sup>4</sup> (177°C)	50.0	sec	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>5</sup> (Shore A)	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength <sup>6</sup> (Yield)	13.0	MPa	ASTM D412
Tensile Elongation <sup>7</sup> (Break)	180	%	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)<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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