

# Boda BDF25P

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDF25P is a low viscosity curative incorporated fluoroelastomer copolymer.  
This grade is well suited for application where good flowability and excellent mold release property are required. BDF25P can be compounded to meet the major fluoroelastomer specifications.  
BDF25P can be used for injection molding of O-rings and gaskets or extrusion of 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	Low viscosity		
	Copolymer		
	Good liquidity		
	Good demoulding performance		
Uses	Washer		
	Composite		
Appearance	White		
Processing Method	Composite		
	Extrusion		
	Injection 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)	2.05	N·m	
ML <sup>2</sup> (177°C)	0.170	N·m	
t'90 <sup>3</sup> (177°C)	2.2	min	
ts2 <sup>4</sup> (177°C)	55.0	sec	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>5</sup> (Shore A)	75		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)	260	%	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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