

Boda BDF30P

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDF30P is a low to medium viscosity curative incorporated fluoroelastomer copolymer. This is a general purpose grade, well suited for application where good flowability and mold release are required. BDF30P can be compounded to meet the major fluoroelastomer specifications. BDF30P can be used for compression molding of O-ring and gasket or extrusion 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		
	Good liquidity		
	General		
	Good demoulding performance		
	Medium and low viscosity		
Uses	Washer		
	Composite		
	General		
Appearance	White		
Processing Method	Composite		
	Extrusion		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	
Mooney Viscosity (ML 1+10, 121°C)	30	MU	
Fluorine Content	66	%	
Solubility	LMW Ketones and esters		
MH ¹ (177°C)	1.85	N·m	
ML ² (177°C)	0.300	N·m	
t ₉₀ ³ (177°C)	2.2	min	
ts ₂ ⁴ (177°C)	1.0	min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁵ (Shore A)	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ⁶ (Yield)	13.5	MPa	ASTM D412
Tensile Elongation ⁷ (Break)	230	%	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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