

Boda BDF60C

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDF60C is a medium viscosity curative incorporated fluoroelastomer copolymer.
This grade is well suited for application where good process properties, rheological properties and low compression set are required. BDF60C can be compounded to meet the major fluoroelastomer specifications.
BDF60C is a general purpose grade. It can be used for compression molding of O-rings and gaskets. 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 compressive deformability		
	Copolymer		
	Workability, good		
	General		
	Medium viscosity		
Uses	Washer		
	General		
Appearance	White		
Processing Method	Composite		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	
Mooney Viscosity (ML 1+10, 121°C)	42	MU	
Fluorine Content	66	%	
Solubility	LMW Ketones and esters		
MH ¹ (177°C)	2.15	N·m	
ML ² (177°C)	0.400	N·m	
t'90 ³ (177°C)	2.8	min	
ts2 ⁴ (177°C)	1.5	min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁵ (Shore A)	77		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ⁶ (Yield)	14.0	MPa	ASTM D412
Tensile Elongation ⁷ (Break)	200	%	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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