

Boda BDF401HP

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDF401HP is a medium viscosity curative incorporated fluoroelastomer copolymer.

This grade is well suited for application where good rheological properties and excellent compression set resistance are required. BDF401HP can be compounded to meet the major fluoroelastomer specifications.

BDF401HP can be used for compression molding of O-rings and gaskets or extrusion of profiles. 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		
	Medium viscosity		
Uses	Washer		
	Composite		
	Profile		
Appearance	White		
Processing Method	Composite		
	Extrusion		
	Profile extrusion molding		
	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)	2.65	N·m	
ML ² (177°C)	0.320	N·m	
t'90 ³ (177°C)	2.4	min	
ts2 ⁴ (177°C)	1.2	min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁵ (Shore A)	76		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ⁶ (Yield)	15.0	MPa	ASTM D412
Tensile Elongation ⁷ (Break)	200	%	ASTM D412
Compression Set (200°C, 70 hr)	16	%	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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