

Boda BDF25EP

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDF25EP is a low viscosity curative incorporated fluoroelastomer copolymer.

With fast cure speed, this grade is well suited for application where good flowability and extrudability are required. BDF25EP can be compounded to meet the major fluoroelastomer specifications.

BDF25EP can be used for extrusion molding of profiles or tubes. 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 Fast curing Good liquidity		
Uses	Composite Pipe fittings Profile		
Appearance	White		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	
Mooney Viscosity (ML 1+10, 121°C)	25	MU	
Fluorine Content	66	%	
Solubility	LMW Ketones and esters		
MH ¹ (177°C)	1.80	N·m	
ML ² (177°C)	0.250	N·m	
t ₉₀ ³ (177°C)	3.2	min	
ts ₂ ⁴ (177°C)	3.2	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)	13.0	MPa	ASTM D412
Tensile Elongation ⁷ (Break)	220	%	ASTM D412
Compression Set (200°C, 70 hr)	20	%	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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