

Boda BDT651P

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDT651P is a high viscosity curative incorporated fluoroelastomer terpolymer.

This grade is well suited for application where good hot tear resistance, metal bonding properties and superior fluid resistance than copolymers are required. BDT651P can be compounded to meet the major fluoroelastomer specifications.

BDT651P can be used for compression molding of oil seals and 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	Adhesiveness
	Good tear strength
	Viscosity, High
Uses	Composite
	Seals
Appearance	White
Processing Method	Composite
	Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.86	g/cm ³	
Mooney Viscosity (ML 1+10, 121°C)	60	MU	
Fluorine Content	68	%	
Solubility	LMW Ketones and esters		
MH ¹ (177°C)	2.45	N·m	
ML ² (177°C)	0.500	N·m	
t'90 ³ (177°C)	2.9	min	
ts2 ⁴ (177°C)	2.9	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)	13.6	MPa	ASTM D412
Tensile Elongation ⁷ (Break)	270	%	ASTM D412
Compression Set (200°C, 70 hr)	31	%	ASTM D395B

Additional Information			
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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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