

Boda BDT246-2CP

Fluoroelastomer

Chenguang Fluoro & Silicone Elastomers Co., Ltd.

Message:

BDT246-2CP is a medium to high viscosity curative incorporated fluoroelastomer terpolymer. This grade is well suited for application where good processing properties and superior fluid resistance than standard terpolymers are required. BDT246-2CP can be compounded to meet the major fluoroelastomer specifications. BDT246-2CP 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	Workability, good		
	Terpolymer		
	Medium and high viscosity		
Uses	Washer		
	Composite		
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)	46	MU	
Fluorine Content	69	%	
Solubility	LMW Ketones and esters		
MH ¹ (177°C)	2.30	N·m	
ML ² (177°C)	0.240	N·m	
t'90 ³ (177°C)	2.7	min	
ts2 ⁴ (177°C)	1.3	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)	13.8	MPa	ASTM D412
Tensile Elongation ⁷ (Break)	230	%	ASTM D412
Compression Set (200°C, 70 hr)	26	%	ASTM D395B

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (23°C, 168 hr, Class C Standard Fuel)	-30	%	ASTM D471
Change in Ultimate Elongation (23°C, 168 hr, Class C Standard Fuel)	-4.0	%	ASTM D471

Change in Durometer Hardness (23°C, 168 hr, in Reference Fuel C)	-15		ASTM D471
Change in Volume (23°C, 168 hr, Class C Standard Fuel)	20	%	ASTM D471

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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