

DAI-EL™ G-7800BP

Fluoroelastomer

DAIKIN AMERICA, INC.

Message:

DAI-EL G-7800BP is a bisphenol curable, gum copolymer. It has excellent mold flow compared with fluoroelastomers of similar Mooney viscosity, which makes it well suited for compression, transfer or injection molding. Properly compounded, DAI-EL G-7800BP produces vulcanizates with excellent heat and compression set resistance.

General Information	
Features	Copolymer
	Good Flow
	High Heat Resistance
	Vulcanizable
Uses	Gaskets
	Tubing
Appearance	Brown
	White
Forms	Slab
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	
Specific Gravity	1.81	g/cm ³	
Mooney Viscosity (ML 1+10, 121°C)	86	MU	
Fluorine Content	66	%	
Low Temperature Brittleness - TR10	-18	°C	ASTM D1329
Hardness	Nominal Value	Unit	
Durometer Hardness ¹ (Shore A)	75		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
100% Strain, 25°C ²	6.40	MPa	
100% Strain, 25°C ³	6.00	MPa	
Tensile Strength			
Yield, 25°C ⁴	13.6	MPa	
Yield, 25°C ⁵	12.8	MPa	
Tensile Elongation			
Break, 25°C ⁶	190	%	

Break, 25°C ⁷	210	%
Compression Set		ASTM D395B
200°C, 70 hr ⁸	14	%
200°C, 70 hr ⁹	15	%

NOTE		
1.	ODR, Strain: 3°, Test time: 12 min	
2.	ODR, Strain: 3°, Test time: 12 min	
3.	MDR 2000, Strain: 0.5°, Test time: 6 min	
4.	ODR, Strain: 3°, Test time: 12 min	
5.	MDR 2000, Strain: 0.5°, Test time: 6 min	
6.	ODR, Strain: 3°, Test time: 12 min	
7.	MDR 2000, Strain: 0.5°, Test time: 6 min	
8.	MDR 2000, Strain: 0.5°, Test time: 6 min	
9.	ODR, Strain: 3°, Test time: 12 min	

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