

DAI-EL™ G-7452

Fluoroelastomer
DAIKIN AMERICA, INC.

Message:

DAI-EL G-7452 is a cure-incorporated copolymer with medium Mooney viscosity. It has excellent mold flow compared with fluoroelastomers of similar Mooney viscosity, making it well suited for compression, transfer or injection molding. DAI-EL G-7452 is designed for seals and other complex shapes, where higher elongation at molding temperatures provides easy part demolding.

General Information	
Features	Copolymer
	Good Flow
	Good Mold Release
	High Elongation
	Medium Viscosity
Uses	Gaskets
	Seals
	Tubing
Appearance	Cream
	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)	42	MU	
Fluorine Content	66	%	
Low Temperature Brittleness - TR10	-18	°C	ASTM D1329
Hardness	Nominal Value	Unit	
Durometer Hardness			
Shore A ¹	74		
Shore A ²	73		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
100% Strain, 25°C ³	4.50	MPa	
100% Strain, 25°C ⁴	4.70	MPa	
Tensile Strength			

Yield, 25°C ⁵	15.0	MPa
Yield, 25°C ⁶	15.3	MPa
Tensile Elongation		
Break, 25°C ⁷	260	%
Break, 25°C ⁸	250	%
Compression Set		ASTM D395B
200°C, 70 hr ⁹	15	%
200°C, 70 hr ¹⁰	17	%

NOTE

- | | |
|-----|--|
| 1. | ODR, Strain: 3°, Test time: 12 min |
| 2. | MDR 2000, Strain: 0.5°, Test time: 6 min |
| 3. | ODR, Strain: 3°, Test time: 12 min |
| 4. | MDR 2000, Strain: 0.5°, Test time: 6 min |
| 5. | ODR, Strain: 3°, Test time: 12 min |
| 6. | MDR 2000, Strain: 0.5°, Test time: 6 min |
| 7. | ODR, Strain: 3°, Test time: 12 min |
| 8. | MDR 2000, Strain: 0.5°, Test time: 6 min |
| 9. | MDR 2000, Strain: 0.5°, Test time: 6 min |
| 10. | ODR, Strain: 3°, Test time: 12 min |

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