

DAI-EL™ G-7451

Fluoroelastomer
DAIKIN AMERICA, INC.

Message:

DAI-EL G-7451 is a cure-incorporated copolymer designed for transfer and compression molding applications. G-7451 offers medium Mooney viscosity with good compression set resistance.

General Information	
Features	Copolymer
	Low Compression Set
	Medium Viscosity
Uses	Gaskets
	Seals
Appearance	Cream
	White
Forms	Pellets
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit
Specific Gravity	1.81 to 1.85	g/cm ³
Mooney Viscosity (ML 1+10, 121°C)	44	MU
Fluorine Content	66	%
Cure Temperature	170	°C
Cure Time - Curelasterometer	5.0	min
Gehman Torsion Test		
T10	-15	°C
T2	-7	°C
TR Test		
TR10	-18	°C
TR70	-9	°C
Hardness	Nominal Value	Unit
Durometer Hardness (Shore A, 25°C)	73	
Elastomers	Nominal Value	Unit
Tensile Stress (100% Strain, 25°C)	4.60	MPa
Tensile Strength (Yield, 25°C)	15.7	MPa
Tensile Elongation (Break, 25°C)	240	%

Tear Strength (25°C)	23.4	kN/m
Compression Set		
25°C, 70 hr	8.0	%
100°C, 70 hr	6.0	%
175°C, 70 hr	7.0	%
200°C, 70 hr	10	%
Aging	Nominal Value	Unit
Change in Tensile Strength in Air (230°C, 70 hr)	11	%
Change in Ultimate Elongation in Air (230°C, 70 hr)	0.0	%
Change in Durometer Hardness in Air (Shore A, 230°C, 70 hr)	2.0	
Thermal	Nominal Value	Unit
Brittleness Temperature	-20.0	°C

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