

DAI-EL™ G-551

Fluoroelastomer

DAIKIN AMERICA, INC.

Message:

DAI-EL G-551 is a cure incorporated terpolymer designed for transfer and compression molding applications molding. G-551 offers a good balance between methanol resistance and low temperature flexibility.

General Information		
Features	Low Temperature Flexibility	
	Terpolymer	
Uses	Gaskets	
	Seals	
Appearance	Pink	
	White	
Forms	Pellets	
Processing Method	Compression Molding	
	Resin Transfer Molding	
Physical	Nominal Value	Unit
Specific Gravity	1.84 to 1.89	g/cm ³
Mooney Viscosity (ML 1+10, 121°C)	48	MU
Fluorine Content	69	%
Cure Temperature	170	°C
Cure Time - Curelastmeter	2.4	min
Gehman Torsion Test		
T10	-12	°C
T2	-7	°C
TR Test		
TR10	-14	°C
TR70	-8	°C
Hardness	Nominal Value	Unit
Durometer Hardness (Shore A)	74	
Elastomers	Nominal Value	Unit
Tensile Stress (100% Strain, 25°C)	4.40	MPa
Tensile Strength (Yield, 25°C)	15.9	MPa
Tensile Elongation (Break, 25°C)	210	%
Tear Strength (25°C)	20.6	kN/m

Compression Set		
25°C, 70 hr	13	%
100°C, 70 hr	9.0	%
175°C, 70 hr	18	%
200°C, 70 hr	25	%
Aging	Nominal Value	Unit
Change in Tensile Strength in Air (230°C, 70 hr)	1.0	%
Change in Ultimate Elongation in Air (230°C, 70 hr)	-1.0	%
Change in Durometer Hardness in Air (Shore A, 230°C, 70 hr)	0.0	
Thermal	Nominal Value	Unit
Brittleness Temperature	-21.0	°C

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