

DAI-EL™ G-501NK

Fluoroelastomer

DAIKIN AMERICA, INC.

Message:

DAI-EL G-501NK is a terpolymer for use with diamine cure systems. G-501NK is a high viscosity grade for transfer and compression molding applications. G-501NK can be cured with low activity magnesium oxide and diamine.

General Information	
Features	High Viscosity
	Terpolymer
Uses	Diaphragms
	Gaskets
	Seals
Appearance	White
	Yellow
Forms	Pellets
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit
Specific Gravity	1.84 to 1.92	g/cm ³
Mooney Viscosity (ML 1+10, 121°C)	74	MU
Fluorine Content	68	%
Cure Temperature	160	°C
Cure Time - Curelastmeter	5.1	min
Gehman Torsion Test		
T10	-15	°C
T2	-9	°C
TR Test		
TR10	-16	°C
TR70	-8	°C
Hardness	Nominal Value	Unit
Durometer Hardness (Shore A, 25°C)	75	
Elastomers	Nominal Value	Unit
Tensile Stress (100% Strain, 25°C)	4.10	MPa
Tensile Strength (Yield, 25°C)	17.4	MPa
Tensile Elongation (Break, 25°C)	280	%

Tear Strength (25°C)	24.5	kN/m
Compression Set		
25°C, 70 hr	30	%
100°C, 70 hr	31	%
175°C, 70 hr	30	%
200°C, 70 hr	65	%
Aging	Nominal Value	Unit
Change in Tensile Strength in Air (230°C, 70 hr)	-15	%
Change in Ultimate Elongation in Air (230°C, 70 hr)	10	%
Change in Durometer Hardness in Air (Shore A, 230°C, 70 hr)	1.0	
Thermal	Nominal Value	Unit
Brittleness Temperature	-31.0	°C

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