

DAI-EL™ G-781

Fluoroelastomer

DAIKIN AMERICA, INC.

Message:

DAI-EL G-781 is a cure incorporated copolymer designed for transfer and compression molding applications. G-781 provides improved hot tear and release properties for transfer and compression molding applications.

General Information			
Features	Copolymer		
	Good tear strength		
Uses	Washer		
	Seals		
Appearance	White		
	Pink		
Forms	Particle		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm ³	ASTM D792
Mooney Viscosity (ML 1+10, 121°C)	32	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.80	MPa	ASTM D412
Tensile Strength (Yield)	14.8	MPa	ASTM D412
Tensile Elongation (Break)	220	%	ASTM D412
Tear Strength (25°C)	20.9	kN/m	ASTM D624
Compression Set			ASTM D395
25°C, 70 hr	8.0	%	ASTM D395
100°C, 70 hr	5.0	%	ASTM D395
175°C, 70 hr	8.0	%	ASTM D395
200°C, 70 hr	15	%	ASTM D395
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (230°C, 70 hr)	-2.0	%	ASTM D573
Change in Ultimate Elongation in Air (230°C, 70 hr)	-2.0	%	ASTM D573
Change in Durometer Hardness in Air (Shore A, 230°C, 70 hr)	0.0		ASTM D573

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-18.0	°C	ASTM D746
Additional Information			

All tests performed were performed under DAIKIN test methods
 Fluorine Content: 66%
 Curing characteristic, Measuring Temperature: 170°C
 Curing characteristic, Curelaster: 5.5 min
 Gehman torsion test, T2: -7.0°C
 Gehman torsion test, T10: -14.5°C
 CTR test, TR10: -18°C
 CTR test, TR70: -10°C

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