

Daikin DAI-EL G-501NK Fluoroelastomer Terpolymer, Diamine Curable Grade, 68% Fluorine Content

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Features: Good mechanical characteristics. Information provided by Daikin Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Daikin-DAI-EL-G-501NK-Fluoroelastomer-Terpolymer-Diamine-Curable-Grade-68-Fluorine-Content.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.92 g/cc	1.92 g/cc	at 25°C
Oxygen Transmission	88.0 cc-mm/m ² -24hr-atm	224 cc-mil/100 in ² -24hr-atm	
Nitrogen Transmission	59.0 cc-mm/m ² -24hr-atm	150 cc-mil/100 in ² -24hr-atm	
Carbon Dioxide Transmission	93.0 cc-mm/m ² -24hr-atm	236 cc-mil/100 in ² -24hr-atm	
Mooney Viscosity	74 @Temperature 121 °C	74 @Temperature 250 °F	ML 1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Peak value, at 25°C
Tensile Strength at Break	17.4 MPa	2520 psi	
Tensile Strength, Yield	4.10 MPa @Strain 100 %	595 psi @Strain 100 %	
Elongation at Break	280 %	280 %	
Tear Strength	24.5 kN/m	140 pli	at 25°C
Compression Set	30 %	30 %	70 hours at 25°C
	30 % @Temperature 175 °C	30 % @Temperature 347 °F	70 hours
	31 % @Temperature 100 °C	31 % @Temperature 212 °F	70 hours
	65 % @Temperature 200 °C	65 % @Temperature 392 °F	70 hours

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-16.0 °C	3.20 °F	TR test, TR10
	-14.5 °C	5.90 °F	Gehman torsion test, T10
	-8.50 °C	16.7 °F	Gehman torsion test, T2
	-8.00 °C	17.6 °F	TR test, TR70
Brittleness Temperature	-31.0 °C	-23.8 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	160 °C	320 °F	Cure Measuring Temperature
Cure Time	5.10 min	0.0850 hour	Curelastmeter

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