

DuPont Performance Polymers Kalrez® 1058 FFKM Perfluoroelastomer (discontinued **)

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

Material Notes:

A carbon black-filled compound that has been plasticized with perfluorinated oil. It is the softest, lowest modulus compound in the Kalrez line. Generally it is similar in resistance to Compound 1050LF. Typically used in applications that require low sealing force or high extensibility including liquid chromatography septa, seals/seats for relief valves and tubing. Its shrinkage is higher than other Kalrez compounds. This former DuPont Dow Elastomers product line is now produced by DuPont Performance Elastomers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-1058-FFKM-Perfluoroelastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.90 - 2.00 g/cc	0.0686 - 0.0723 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60 - 70	60 - 70	ASTM D2240
Tensile Strength, Ultimate	9.00 MPa	1310 psi	ASTM D412
Elongation at Break	180 %	180 %	ASTM D412
100% Modulus	0.00470 GPa	0.682 ksi	ASTM D412
Tear Strength	3.06 kN/m	17.5 pli	
Compression Set	40 % @Temperature 204 °C	40 % @Temperature 399 °F	70 hr at 204°C; ASTM D395B; Pellets

Thermal Properties	Metric	English	Comments
CTE, linear	229 µm/m-°C @Temperature 22.0 - 100 °C	127 µin/in-°F @Temperature 71.6 - 212 °F	
	230 µm/m-°C @Temperature 22.0 - 260 °C	128 µin/in-°F @Temperature 71.6 - 500 °F	
Specific Heat Capacity	0.945 J/g-°C @Temperature 50.0 °C	0.226 BTU/lb-°F @Temperature 122 °F	
	0.974 J/g-°C @Temperature 100 °C	0.233 BTU/lb-°F @Temperature 212 °F	

Thermal Properties	Metric	English	Comments
	1.053 J/g-°C	0.2517 BTU/lb-°F	
	@Temperature 150 °C	@Temperature 302 °F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	0.180 W/m-K	1.25 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	
	@Temperature 50.0 °C	@Temperature 122 °F	
Maximum Service Temperature, Air	260 °C	500 °F	Maximum recommended service temperature.
Brittleness Temperature	-40.0 °C	-40.0 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+17 ohm-cm	5.00e+17 ohm-cm	
Dielectric Constant	4.9	4.9	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	>= 17.7 kV/mm	>= 450 kV/in	
Dissipation Factor	0.0050	0.0050	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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