

DuPont Performance Polymers Kalrez® 1050LF FFKM Perfluoroelastomer

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

Material Notes:

A general-purpose compound for O-rings, seals, and other parts used in chemical process industries. It has good hot water/steam, excellent amine resistance, and enhanced compression set properties. Not recommended for use in organic or inorganic acids at high temperatures. Data provided by DuPont Dow Elastomers. 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-1050LF-FFKM-Perfluoroelastomer.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	77 - 87	77 - 87	ASTM D2240
Tensile Strength, Ultimate	18.6 MPa	2700 psi	ASTM D412
Elongation at Break	125 %	125 %	ASTM D412
100% Modulus	0.0124 GPa	1.80 ksi	ASTM D412
Tear Strength	3.06 kN/m	17.5 pli	
Abrasion	121	121	NBS Abrasion Resistance; ASTM D1630
Compression Set	35 % @Temperature 204 °C	35 % @Temperature 399 °F	70 hr at 204°C; ASTM D395B; Pellets

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

Thermal Properties	Metric	English	Comments
	@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	288 °C	550 °F	Maximum recommended service temperature.
Brittleness Temperature	-41.0 °C	-41.8 °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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China