

## DuPont Performance Polymers Kalrez® 3018 FFKM Perfluoroelastomer (discontinued \*\*)

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

### Material Notes:

A carbon black-filled compound that is similar to Compound 1050LF, except for higher hardness/modulus. Best hot water/steam resistance. Generally used in oil fields and process industry applications where these properties coupled with good amine and general chemical resistance are required. 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-3018-FFKM-Perfluoroelastomer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Kalrez-3018-FFKM-Perfluoroelastomer-nbspdiscontinued-.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86 - 96	86 - 96	ASTM D2240
Tensile Strength, Ultimate	21.7 MPa	3150 psi	ASTM D412
Elongation at Break	125 %	125 %	ASTM D412
100% Modulus	0.0169 GPa	2.45 ksi	ASTM D412
Tear Strength	4.52 kN/m	25.8 pli	
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 @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	1.053 J/g-°C Metric	0.2517 BTU/lb-°F English	Comments
	@Temperature 150 °C	@Temperature 302 °F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	0.180 W/m-K	1.25 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.190 W/m-K	1.32 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 50.0 °C	@Temperature 122 °F	
Maximum Service Temperature, Air	288 °C	550 °F	Maximum recommended service temperature.
Brittleness Temperature	-37.0 °C	-34.6 °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](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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