

Shin-Etsu Silicones LIMSâ„¢ KEG2000-50A/B Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

KEG2000-50 is a liquid injection molding silicone. It is supplied as two components which are mixed in a 1:1 ratio to ensure easy and accurate blending. Its viscosity is low enough to allow easy pumping through most injection molding systems. Features High tear strength Rapid cure time at elevated temperature Long pot life at room temperature Applications O-Rings Diaphragms Capping Rubber rollers Connector packaging Other electrical parts Information Provided by Shin-Etsu Silicones of America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shin-Etsu-Silicones-LIMS-KEG2000-50AB-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	
Viscosity	1.60e+6 cP	1.60e+6 cP	B
	1.70e+6 cP	1.70e+6 cP	A
Linear Mold Shrinkage	0.026 cm/cm	0.026 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	52	52	
Tensile Strength	11.1 MPa	1610 psi	
Elongation at Yield	580 %	580 %	
100% Modulus	0.00172 GPa	0.249 ksi	
Tear Strength	40.0 kN/m	228 pli	
Compression Set	8.0 %	8.0 %	
	@Temperature 200 Â°C, Time 14400 sec	@Temperature 392 Â°F, Time 4.00 hour	
	31 %	31 %	
	@Temperature 150 Â°C, Time 3600 sec	@Temperature 302 Â°F, Time 1.00 hour	

Processing Properties	Metric	English	Comments
Cure Time	5.00 min	0.0833 hour	Press Cure
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	60.0 min	1.00 hour	Post Cure
	@Temperature 150 Â°C	@Temperature 302 Â°F	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Appearance	Translucent		
Cure Rate	35		T10 (302°F, ODR)
	45		T90 (302°F, ODR)
Regulatory Testing	Class VI, FDA		

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