

Shin-Etsu Silicones LIMSâ„¢ KE1950-50A/B Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

KE-1950-50 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. It's viscosity is low enough to allow easy pumping through most injection molding systems.FeaturesRapid cure time at elevated temperatureLong pot life at room temperatureApplicationsO-ringsDiaphragmsCappingRubber rollersConnector packingsOther electrical partsInformation Provided by Shin-Etsu Silicones of America, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Shin-Etsu-Silicones-LIMS-KE1950-50AB-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	
Viscosity	680000 cP	680000 cP	A
	680000 cP	680000 cP	B
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	52	52	
Tensile Strength	9.30 MPa	1350 psi	
Elongation at Yield	550 %	550 %	
100% Modulus	0.00167 GPa	0.242 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	
	28 %	28 %	
	@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 120 Â°C	@Temperature 248 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	42		T10 (302Â°F, ODR)
	68		T90 (302Â°F, ODR)
Regulatory Testing	Class VI, FDA		

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