

Resin Technology Group KONA 877 Low Viscosity, Low Shrinkage, Vacuum Grade Casting Resin

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Mix ratio 1 to 1 by weight. KONA 877 with HARDENER #112 is a versatile epoxy casting system developed for high performance production potting and encapsulating applications where low shrinkage and rapid air evacuation are required. This formulation has a very low surface tension and a flowable viscosity which affords excellent air release. It has been used as a one fill impregnating and encapsulating resin. KONA 877 with HARDENER #112 adheres to rigid plastics and laminates, metals and ceramics, has a low coefficient of thermal expansion and is readily machined and shaped with ordinary shop tools. The fully cured epoxy system is an excellent electrical insulator which provides good resistance to electrolysis, leakage and corrosion, water, weather, gases and chemical compounds including mild acids and alkalis, many corrosive salts and salt solutions, petroleum products, lubricants and other organic and inorganic materials. Information provided by Resin Technology Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resin-Technology-Group-KONA-877-Low-Viscosity-Low-Shrinkage-Vacuum-Grade-Casting-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	Mixed
Viscosity	3000 cP @Temperature 25.0 °C	3000 cP @Temperature 77.0 °F	Mixed

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	
Tensile Strength at Break	55.2 MPa	8000 psi	
Compressive Strength	96.5 MPa	14000 psi	
Shear Strength	17.2 MPa	2500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 °C	23.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	100 °C	212 °F	Heat distortion temperature, load unknown
	120 °C	248 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	17.7 kV/mm	450 kV/in	
Dissipation Factor	0.010	0.010	
	@Frequency 100000 Hz	@Frequency 100000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 220 °C	@Temperature 428 °F	
	120 min	2.00 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	2880 min	48.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	120 min	120 min	150 g mass
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Black or white	

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