



PRODUCT INFORMATION

HIGH TECHNOLOGY MATERIALS

MERECO METASIL 5060 THERMALLY CONDUCTIVE SILICONE RTV FOR ELECTRONIC HEAT TRANSFER APPLICATIONS

Mereco Metasil 5060 is a two-component, solventless, addition curing silicone RTV material specifically designed for applications where a thermally conductive, thixotropic, medium durometer material is required. **Metasil 5060** has high temperature and chemical resistance with excellent flexibility and low shrinkage.

TYPICAL PROPERTIES

	Metasil 5060 <u>Resin</u>	Metasil 5060 <u>Activator</u>
Viscosity, cps	Thixotropic Paste	Thixotropic Paste
Sp. Gravity	1.7	1.7
Color	Gray	Gray
Form	Thin Paste	Thin Paste
Mix Ratio wt/vol,	1:1	
Mixed Viscosity, cps	Thixotropic paste	
Working time, 100 gms.	30 minutes	
85% Cure time	20-24 hours	
Cure Time @ 25°C	2 days	
Cure Time @ 65°C	2 hrs.	
Cure Time @ 100°C	30 min.	
Cure Time @ 150°C	15 min.	
Durometer, Shore A	50 +/- 5	
Tensile, psi	725	
Elongation %	325	
Tear B, ppi	50	
Linear Shrinkage, %	0.1%	
Temp. Range	-55°C to +200°C	
Dielectric strength	450 volts/mil	
Dielectric Constant 1 KHz	3.0	
Dissipation Factor 1 KHz	0.004	
Volume resistivity, ohm-cm	7 X 10 ¹⁴	
Thermal conductivity	3.7	
	(Btu · in · hr ⁻¹ · ft ² · deg F ⁻¹)	

minutes under a vacuum of 25-29 inches of Mercury. Apply material. Cure according to the cure schedule desired. If dual cartridges are used, the material may be directly applied using a static mixer.

Note: Certain substances may inhibit the cure of **Metasil 5060** by direct or indirect contact. Metallic salts, butyl, PVC plasticizers, chlorinated rubber, amines and sulfur containing materials may all inhibit the cure.

Storage and Handling: Mereco **Metasil 5060** has a shelf-life of six months from date of shipment when stored in original unopened containers at a temperature below 25°C.

FEATURES/BENEFITS – METASIL 5060

High thermal conductivity
 Little increase in modulus at low temperature
 High chemical and temperature resistance
 Heat or room temperature cure capability
 Excellent flexibility, elastomeric properties
 Medium durometer, good dampening
 Low shrinkage, low stress on components
 Good tear strength
 No exotherm
 No inductance change during temp. cycling

METASIL 5060 is available in pint, quart, 2 quart, and 2 gallon kits as well as 50ml, 200ml, and 400 ml dual cartridges.

Handling Instructions: Weigh 100 parts of activator to 100 parts resin. Mix for a period of time until mixing is complete. Degas for 5

Refer to Mereco TAB 3-641 for proper operation of 50cc dual cartridges using a manual dispenser.

Technical information and recommendations made by Mereco Division and Metachem Resins Corporation concerning products and uses or applications thereof, are based on reliable laboratory tests and are believed to be accurate. No warranty, however, is expressed or implied, nor is any warranty expressed or implied as to results to be obtained from use of said materials, whether used singly or in combination with other products. No statements made are to be construed as constituting a license under any existing patent.

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Pneumatic dispensers are also available. For 200 ml and 400ml dual cartridges pneumatic dispensers are recommended if small quantities of material are to be applied. Contact Mereco if further information is required.