



PRODUCT INFORMATION

HIGH TECHNOLOGY MATERIALS

METACAST 5230

MULTI-PURPOSE HIGH QUALITY RESIN SYSTEM

METACAST 5230 is a low cost, multi-purpose epoxy resin compound designed specifically for use in the electronics industry. It's low viscosity, low volatility resins are intimately dispersed with non-abrasive fillers to provide minimal shrinkage, low exotherm and excellent chemical and electrical insulation.

By varying the hardener, **METACAST 5230** will replace several more expensive limited function-type resins with a resultant reduction in inventory costs. It's non-settling, low viscosity, non-abrasive properties make it ideal for automatic or hand dispensing applications such as potting, encapsulating, casting, bonding and sealing delicate electronic components.

METACAST 5230 is available with a choice of curing agents.

For potting and casting

MERECO HARDENER #10 - room temperature curing, low exotherm, minimal shrinkage

For maximum environmental protection

MERECO HARDENER #16 - heat curing, optimum electrical and physical properties, high heat stability.

For adhesive applications

MERECO HARDENER #42 - room temperature curing, controlled flexibility, high adhesion.

INSTRUCTIONS FOR USE

Mereco Hardener	Mix Ratio (phr)*	Pot Life (hrs.)	Cure Time (hrs.)	Temp.	Post Cure Time (hrs.)	Temp.
#10	10	3/4	8 - 12	72°F	1	150°F
#16	12	12	3 OR 5	220°F 170°F	4 6	265°F 225°F
#42	25-75	2	12 - 16	72°F	24	72°F

*Parts of hardener per 100 parts of **METACAST 5230** resin, by weight.

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MERECO TECHNOLOGIES GROUP * 1505 MAIN STREET * WEST WARWICK, R.I. 02893 * (401) 822-9300 * Fax (401) 822-9311

TYPICAL PROPERTIES

	MERECO HARDENERS		
	#10	#16	#42*
Specific Gravity, 25°C/25°C	1.38	1.37	1.42
Viscosity @ 25°C (catalyzed), cps	6,000	8,000	80,000
Tensile Strength, psi	10,000	14,000	28,000
Hardness, Shore D Durometer	85	90	76
Compressive Strength, psi	13,000	19,000	35,000
Thermal Coefficient of Expansion, per °F	35.0 x 10 ⁻⁶	21.0 x 10 ⁻⁶	48.0 x 10 ⁻⁶
Water Absorption, (7 days @ Room Temperature), %	.16	.12	.45
Thermal Conductivity, BTU/HR/FT ² /°F/IN	3.78 x 10 ⁻⁴	3.50 x 10 ⁻⁴	2.9 x 10 ⁻⁴
Volume Resistivity, (ohm-cm) @ 25°C	5.0 x 10 ¹⁶	2.5 x 10 ¹⁶	2.0 x 10 ¹⁴
Dielectric Constant, 1 KHz	4.2	4.4	3.5
Dissipation Factor, 1 KHz	0.026	0.017	0.036
Dielectric Strength, Volts/mil	440	490	400

*Mix Ratio - 50 PHR

Properties listed are typical and are not intended for preparation of specifications.