

Technical Information

Wire Enamels I Micromid 39



MICROMID 39

UL RECOGNISED FILE NO. E253451

Type

Micromid 39 is a Theic modified Polyester imide enamel used as a single coat as well as for dual coat wires. It is recommended for medium gauges. Wires combined with MICROMID 39 & Polyamide imide as topcoat have excellent resistance against chemicals including refrigerants & suitable for application in Hermetic motors.

Specifications

Properties	Test Method	Unit	Specification
Specific Gravity at 25°C	ASTM D 891		1.10 + / - 0.02
Viscosity			
By Ford Cup B4 at 30°C	IS 3944	Seconds	120 + / - 10
By Brookfield at 25°C	ASTM D - 2196	M pas	550 - 700
Solid Content (1gm / 2hrs / 180°C)	ASTM D - 1353	Percentage	37 to 39
Flash Point	ASTM D - 93	Degree in Celsius	45°C

Recommended Thinner - for thinning the enamel a special THINNER is recommended.

Application - By Dies or Felt Pads.

Shelf Life - About 12 months from the date of production, if stored in original sealed containers in a cool & dry place.

Packing - 210 kgs / 25 kgs in MS New barrels / drums.

Representative properties of enameled wire as per IEC - 60851 part 1 to 6 & IEC - 60317 - 08 & 60317 - 13

Properties	Unit	Specification	
		MICROMID 39	MICROMID 39 + PAI
		Single Coat	Dual Coat
Conductor Diameter	Millimeter	1.00	1.00
Increase in Diameter	Millimeter	0.076	0.076
Colour		Brownish	Brownish
Mechanical Tests			
Jerk Test		OK	OK
Peel Test	Revolution	130	127
Elongation	Percentage	38	38
Flexibility		10% stretch 1xd - OK	10% stretch 1xd - OK
Resistance to Abrasion	Unidirectional - Newton	13.1	13.3
Thermal Tests			
Heat Shock at 200°C		2.24 mm - OK	—
Heat Shock at 250°C		—	2.24 mm - OK
Cut Through	Degree in Celsius	350 - OK	350 - OK
Thermal Class	Degree in Celsius	180	200

Properties	Unit	Specification	
Electrical Tests			
Breakdown Voltage	Kilovolt (KV)	10	10
Tandelta Bending Point	Degree in Celsius	182	187
Chemical Test			
Solvent Resistance	Pencil Hardness (H)	4H	4H
Freon R22 Blister Test		No Blisters	No Blisters
Freon R22 Extraction	Percentage	Less than 0.100	Less than 0.100

Note - All technical properties are for guidance only. Our data reflect the latest of our knowledge and are based on the characteristics established in the laboratory and on practice experience. No warranties of any kind, either expressed or implied, are made regarding the products here described.