



**MICROMID39**

**Type** MICROMID39 is a Theic modified Polyesterimide enamel used as a single coat as well as for dual coat wires . It is recommended for thick gauges. Wires combined with MICROMID39 & Polyamide-Imide enamel have excellent resistance against chemicals including refrigerants & suitable for application in hermetic motors.

**Specifications**

Properties	Test Method	Unit	Specification
Specific gravity at 25 <sup>o</sup> C	ASTMD 891		1.10 +/- 0.02
Viscosity			
a. By Ford Cup B4 at 30 <sup>o</sup> C	IS3944	Sec	125 +/- 5
b. By Brookfield at 25 <sup>o</sup> C	ASTMD- 2196	mpas	550-7 00
Solid Content (1gm/2hrs/180 <sup>o</sup> C)	ASTMD -1353	%	39 +/- 1
Flash Point	ASTMD-93	Deg.c	45

**Recommended Thinner**

For thinning the enamel, a special thinner MIC ROMID is recommended

**Application**

By Dies or Felt pads

**Shelf Life**

About 12 months if stored in original sealed containers in a cool & dry place

**Packing**

210 kgs / 25 kgs in MS New barrels / drums

**Rep. Properties of enamelled wires as per IEC-60851 part 1 to 6 & IEC-60317-8 & IEC-60317-13**

Properties	Unit	Specification	
		Micromid39 Singlecoat	Micromid39+P AI Dualcoat
Bare wire diameter	mm	1.626	1.626
Increase in diameter	mm	0.08	0.08
Colour		Reddish brown	Reddish brown
<b>Mechanical Tests</b>			
a. Jerk test		N.A	N.A
b. Peel Test	Revolution	90	90
c. Elongation	%	40	40
d. Flexibility	32% str .	OK	OK
e. Abrasion Resistance			
1. Multiple	Strokes	105	110
2. Unidirectional	Newton	17	17.5
<b>Thermal Tests</b>			
a. Heat shock at 200 <sup>o</sup> C	25% str	OK	
b. Heat shock at 220 <sup>o</sup> C	25% str		OK
c. Cut Through	Deg.C	350-OK	350-OK
d. Temperature Index	Deg.C	200	220
e. Thermal Class	Deg.C	180	200
<b>Electrical Tests</b>			
a. Breakdown Voltage	KV	10	10
b. Tan Delta Bending point	Deg.C	190	200
<b>Chemical Test</b>			
a. Solvent Resistance	H	4H	4H
b. Freon R22 Blister Test		No Blister	No Blister
c. Freon R22 Extraction	%	Less than 0.100	Less than 0.100

The above values are for guidance & giving good faith without any warranty