

BAWATHERM 1001

- BAWATHERM 1001 is a Class 220, Modified Poly-imide based wire enamel, wires coated with BAWATHERM 1001 has resistance to refrigerants R-12 / R-22.

It can be used as topcoat or a Sole coat. It is a very good replacement of traditional polyamide-imide enamel and its cresol soluble and free from NMP so application made easy.

Physical Properties

Appearance	Clear Liquid		
Solid Content 1g/180°C/1h	25 ± 1%	27 ± 1%	34 ± 1%
Size mm	0.05 to 0.500	0.5 to 2.0	1.6 to 5.0
* Viscosity	45 -55	75-90	135-160
** Viscosity	200 - 300	300 - 500	700 -800
Proposed Machine	horizontal machine for felt	horizontal & vertical plant for die	vertical plant for die
Flash Point	40°C		
Compatibility with thinner	1 : 1		

* Viscosity by Din Cup 4 at 25° C in sec.

** Viscosity by Viscometer at 23°C

Mechanical Properties

Diameter of bare wire	1.0 mm
Build up of enamel	0.070 mm
Elongation	36%
Flexibility Mandrel Winding (15% pre-stretch 1xd)	OK
Jerk Test	OK
Peel Test (nxd)	N.A.
Abrasion (Av) (Unidirectional)	10.0

Thermal Properties

Heat Shock	
2dx240°C/ 30min	OK
Cut Through	
360°C / 2min	OK

Chemical Properties

Solvent Resistance	
Pencil Hardness	
Initial	3h
Std. Solvent	2h

Electrical Properties

Break Down Voltage kV	at RT	11 kv
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Tan Delta

Bending Point °C (solid block)	215-225
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Please note that all above-mentioned values may be changed according to the machine.

RECOMMENDED THINNER	Thinner W/E	
PACKING:	BAWATHERM 1001 Thinner PW/E	200 Kg in mild steel drums. 21 Kg in mild steel drums.
SHELF LIFE	One year from date of manufacturing if stored in sealed container (at room temperature 25°C).	

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