

BAWAMID 744

- BAWAMID 744 is a class 180 THEIC modified polyesterimide wire enamel with temperature index 200.
- BAWAMID 744 provides improved flexibility & adherence to copper.
- Enamelled wire coated with BAWAMID 744 gives excellent resistance to refrigerants hermetic motors.
- BAWAMID 744 is suitable for entire range of medium & thick wire sizes 0.5-1.8 mm. (vertical machine, die application).
- BAWAMID 744 can be used as base coat for manufacturing dual coating wires with Polyamide-Imide.
- BAWAMID 744 is UL recognized vide file no.E326858.

Physical Properties

Appearance	Clear Liquid		
Solid Content 1g/180°C/1h	36 ± 1%	40 ± 1%	45 ± 1%
Size mm	0.05 to 0.500	0.5 to 2.0	1.6 to 5.0
* Viscosity	40 -50	100-150	170-200
** Viscosity	300 - 400	650 - 1000	1500 -2000
Proposed Machine	horizontal machine for felt	horizontal & vertical plant for die	vertical plant for die
Flash Point	40°C		
Compatibility with thinner	1 : 1		

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)	150 - 180
Abrasion (Av) (Unidirectional)	14N

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

** Viscosity by Viscometer at 23°C

Thermal Properties

Heat Shock	
2d/200°C/ 30min	OK
Cut Through	
340°C / 2min	OK

Chemical Properties

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

Electrical Properties

Break Down Voltage kV	at RT	11.0
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Tan Delta

Bending Point °C (solid block)	185-210
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Please note that all above-mentioned values may be changed according to the machine.

RECOMMENDED THINNER	Thinner W/E	
PACKING:	BAWAMID 744 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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