

Application : Substrate material, Insulating heat resistant material, coating material, etc.



1. Outline and Feature

1-1) Outline

This is a thermoplastic polyimide varnish. It is already polyimidized; therefore, polyimide film is available by just evaporation of the solvent. In addition, it is characterized by high adhesiveness because it has polar groups in the resin skeleton.

1-2) Feature and General properties

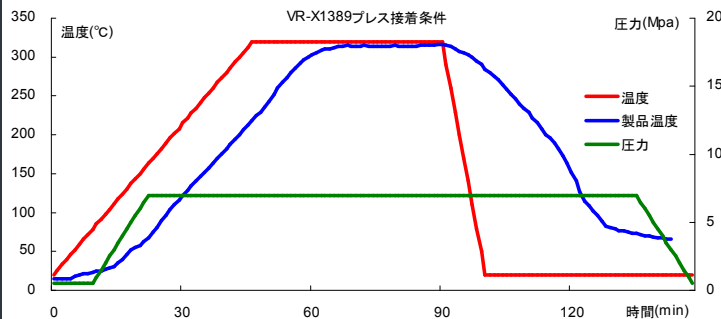
Item	Unit	Properties	Remark
solvent	-	NMP	Only NMP or NMP with BAME, GBL (mixed solvent)
Solid contents	%	15-20	-
Visosity	cp	3,000-8,000	at 25°C (Solid content : 20%)
Apperance	-	Yellowish brown	at 25°C

2. Usage

How to make PI-film (Target 15um thickness)

Coating (Spin coating, Bar coating, etc.) → Drying (Hot air, IR, etc.)

Dry condition Exaample : 120°C×15min+150°C×15min+180°C×15min+210°C×15min+240°C×30min



Press laminate condition

Product temp. : 300°C×20min over

Pressure : 5Mpa over

3. Properties

Item	Unit	Properties	Remark
Tg	°C	224	TMA
CTE	ppm/K	50	TMA(50~200°C)
Thermal decomposition temp.	°C	421	Td5
Elastic modulus	Mpa	3,600	-
Strength	Mpa	121	-
Elongation	%	6.4	

4. Contact

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Q-PILON® PI R & D Co.,Ltd.

Block Co-Polyimide
The Ultra-high heat resistant resin with unlimited potential