

Datasheet

Polyimide solution

P84®Type 70 in NMP – 25%

Physical properties of solution

Property	Condition	Test method	Unit	P84®Type 70 in NMP – 25%
Solid content			%	24–26
Dynamic viscosity	$10s^{-1}$		Pa.s	30
Moisture content		Karl-Fischer Coulometry	%	<1.0
Molecular weight	Mn	GPC	Dalton	60000
	Mp		Dalton	100000
	Mw		Dalton	120000

Recommendations for processing

1. Polyimide P84® is delivered as a viscous solution; it is easily dilutable to the appropriate viscosity with a solvent. Some of the solvent can be replaced with non-solvents of a lower boiling point to optimize the characteristics during drying.
2. Polyimide P84® can be applied using, among other processes, casting, dipping, spin-coating, spraying, or roller-coating.
3. Avoid exposing freshly applied coatings to ambient air. Under humid conditions, they become turbid because the polymer precipitates as the solvent absorbs moisture from the air. Use climate control or purging with dry gas to limit this effect.
4. After being left at 80°C for 30 minutes, the coating will be dry enough to be handled. A forced-air furnace will remove residual solvent. Heating up to 250°C with a ramp of 1–5K/min is recommended.
5. Heat-sensitive substrates can be dried at far lower temperatures.

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