

TECH DATA SHEET

ILR-1400 – HIGH TEMPERATURE STABLE RESIN (FM46-100)



10080 Willow Creek Road
San Diego, CA 92131
858-348-1122
www.designermoleculesinc.com

DESCRIPTION

ILR-1400 is a light yellowish viscous high molecular weight resin with phenol pendant group.

HIGHLIGHTS

- Very flexible film
- Good thermal stability ($T_d = > 400^\circ\text{C}$)
- Soluble in most aromatic and aliphatic solvents such as toluene, xylene, anisole, NMP, etc
- Superior dielectric properties
- Low water absorption
- Good wetting property post b-stage on copper foil

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	METHOD	RESULT
TGA, °C	Td(5%)	424
CTE (α_1/α_2), ppm/°C	TMA	400, linear
Tg, °C	TMA	N/A
	DMA	52.4
Modulus @25C, MPa	DMA	25
Dk	AET, 20GHz	2.4
Df	AET, 20GHz	0.0014
Peel strength, kN/m	Instron	0.8
Tensile strength, MPa	Instron	17.3
% Elongation	Instron	350
Water absorption, %	23°C/24hrs	< 0.2

Data is for reference only and we recommend use of this data as a guide..

RECOMMENDED APPLICATION:

R1400 is suggested for use in applications that require high temperature resin performance such as CCL.

INSTRUCTIONS FOR USE:

APPLICATION - ILR-1400 FOR CCL APPLICATIONS

DRYING - ILR-1400 DRYING CONDITION: 30~60MIN @ 100°C

CURING - ILR-1400 CURING CONDITION: 1HRS @ 200°C

CONTACT:

REQUEST A SAMPLE OR PLACE AN ORDER

Customer Support

☎ 858-348-1122

✉ support@designermoleculesinc.com

REF: DMI Part Number: R1400