

Polysite™ D279 DMD Prepreg

1. GENERAL INFORMATION

Polysite™ D279 (DMD Prepreg) is made from DMD covered on both sides with a heat resistant resin in B-stage. It has the characteristics of long storage life, low curing temperature and short curing time. After being cured, it shows excellent electrical properties, good adhesive and heat resistance. The heat resistance is Class F. D279 (DMD Prepreg) is used for layer insulation or liner insulation of low-voltage copper/aluminium foil winding in dry-type transformers.

2. TECHNICAL VALUES

Nominal Thickness			[mm]	0,12	0,18	0,23
Composition	IEC 60626-2 / 4		[μm]	50/25/50	50/50/50	50/75/50
Thickness Film	IEC 60626-2 / 4		[μm]	25	50	75
Composition	IEC 60626-2 / 4		[mil]	2-1-2	2-2-2	2-3-2
Thickness Film	IEC 60626-2 / 4		[mil]	2	2	3
Area Weight	IEC 60626-2 / 5		[g/m2]	150	190	230
Tensile Strength	MD IEC 60626-2 / 7		[N/cm]	≥60	≥80	≥110
Dissolvable Resin Content	IEC 60626		[g/m2]	35±15	50±15	60±15
Volatile Content	IEC 60626		[%]	≤1,5	≤1,5	≤1,5
Dielectric Strength	IEC 60626		[MV/m]	≥40	≥40	≥40
Shear Strenght Under Tension	IEC 60626		[MPa]	≥3	≥5	≥5
Temperature Class	IEC 61857		°C	155	155	155

Nominal Thickness			[mm]	0,25	0,40
Composition	IEC 60626-2 / 4		[μm]	50/100/50	50/250/50
Thickness Film	IEC 60626-2 / 4		[μm]	100	250
Composition	IEC 60626-2 / 4		[mil]	2-4-2	2-10-2
Thickness Film	IEC 60626-2 / 4		[mil]	4	10
Area Weight	IEC 60626-2 / 5		[g/m2]	265	470
Tensile Strength	MD IEC 60626-2 / 7		[N/cm]	≥140	≥280
Dissolvable Resin Content	IEC 60626		[g/m2]	60±15	60±15
Volatile Content	IEC 60626		[%]	≤1,5	≤1,5
Dielectric Strength	IEC 60626		[MV/m]	≥40	≥40
Shear Strenght Under Tension	IEC 60626		[MPa]	≥5	≥5
Temperature Class	IEC 61857		°C	155	155

Recommended Curing Conditions	Temperature (°C)	Curing Time (h)
IEC 60626	130	5
	140	4
	150	3

3. STORAGE AND AVAILABILITY

- Shelf life is 12 months from EXW date in original packing and under normal conditions (room temperature, 50% relative humidity)
- This product should be kept away from fire, heat and direct sunshine.
- Available from 10 to 1500 mm wide

4. NOTES

All statements, technical information, and recommendations contained in this document are based on tests or experience that we believe are reliable. However, many factors beyond our control can affect the use and performance of a product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes. Tolerances on thickness and area weight are +/- 15% if not stated differently.

All questions of warranty and liability relating to our products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

Polysite™ is a trademark of MaterialPartner Technische Werkstoffe GmbH.

5. VERSIONING

Rev. 2 dated 16/07/2026