

Polysite™ 6644T DM

1. GENERAL INFORMATION

Polysite™ 6644T is a two-ply laminate of non-woven polyester fibre mat bonded to one side of polyester film with the means of a high-quality glue.

This product is a tough, tear-resistant, thermally stable insulation design for applications in UL class F (155°C). DM has a backing of unsaturated non-woven polyester mats, which absorb the resin during impregnation. The polyester ply adds dielectrical strength, stiffness, shape memory and snap back.

2. TECHNICAL VALUES

Nominal Thickness	[µm]	55	80	110	140	160
Pet Thickness	[µm]	23	23	50	75	100
Area Weight	[g/m ²]	59	76	114	148	183
Dielectric Strength	[kV]	3,3	3,5	4,0	5,5	8,5
Tensile Strength	[N/cm]	60	65	95	115	135
Elongation at Break	[%]	22	28	18	18	18

Nominal Thickness	[µm]	190	240	300	350
Pet Thickness	[µm]	125	190	250	300
Area Weight	[g/m ²]	218	309	393	463
Dielectric Strength	[kV]	9,5	14,5	17,5	20
Tensile Strength	[N/cm]	160	230	290	345
Elongation at Break	[%]	18	20	20	20

3. STORAGE AND AVAILABILITY

- Shelf life is 18 months from EXW date in original packing and under normal conditions (room temperature, 50% relative humidity)
- Standard width is 1000 mm
- Available from 10 mm width upwards

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