3M Double Coated Polyethylene Foam Tapes

1600T

Product Description

1600T and 1600TG are double-sided adhesive tapes based on polyethylene foam substrate. They are composed of a highly adhesive sealed foam and high-performance acrylic adhesive. The acrylic adhesive of these tapes can provide excellent initial and final adhesion on various surfaces (including various plastic surfaces). Besides, 1600T and 1600TG also have excellent shear properties, which can provide long-term holding force, thus performing well even in high-temperature or harsh environmental conditions.

Technical Specifications

Adhesive Type	Acrylic
Back Side Adhesive Type	Acrylic
Backing (Carrier) Material	EPE
Tape Thickness (Imperial)	2.7mil
Tape Thickness (Metric)	0.07 mm
Brands	3M
Product Color	White
Smallest Saleable Unit	Roll

Dimensions and Classifications

Overall Length (Imperial)	3.28 yd, 5.14 yd, 6.01 yd, 7.21yd, 36.09 yd maximum.
Overall Length (Metric)	3m, 4.7m, 5.5 m, 6.6 m, 33m maximum.
Overall Width (Imperial)	0.19in, 0.23in, 0.39in, 0.78in, 1.18in, 2.36in, 3.93in, 7.87in, 11.8in, 23.6in maximum.
Overall Width (Metric)	5mm, 6mm, 10mm, 20mm, 30mm, 60mm, 100mm, 200mm,300mm, 600mm maximum.

Product features

1. The acrylic coatings applied by 1.3M 1600T and 1600TG have both high initial viscosity and high shear force properties. They perform well on various surfaces, including various types of plastics.

2. 1.3M 1600T and 1600TG feature strong structural polyethylene foam, which can withstand high loads, strong peeling, and external impacts.

3. Grafix release paper has excellent processing properties.

Bond Build Rate:

After application, the bond strength will gradually increase as the adhesive flows onto to the surface (also referred to as “wet out”). The bond build rate will depend on both tape and

substrate, but generally, at room temperature, approximately 50% of ultimate bond strength will be achieved after 20 minutes, 90% after 24 hours, and 100% after 72 hours. Adhesive flow is faster at higher temperatures and slower at lower temperatures. Ultimate bond strength can be accelerated (and in some cases bond strength can be increased) by exposure to elevated temperature (e.g. 66°C [150°F] for 1 hour). This can provide better adhesive wet out onto the substrates. Abrasion (~180 grit), or the use of primers/adhesion promoters can also increase both bond strength as well as the bond build rate.

Storage and Shelf Life

Store in original cartons at 4-38°C (40-100°F) and 0-95% relative humidity. Optimum storage conditions are 22°C (72°F) and 50% relative humidity. When stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.