



Heat Shrink Tubes

GTI - Polyolefin



1. Product Description

3M™ GTI is a thin wall Heat Shrink Tubing range, designed to provide reliable performance for electrical splices, connections, and terminations up to 600 V. GTI Heat Shrink Tubes have a flame-retardant polyolefin crosslinked wall and a Shrink ratio of 2:1.

2. Typical Properties

2.1 Technical Information

Physical Properties	Value	Requirement	Test Method
Colour	Black, Yellow-Green		
Shrink ratio	2:1		
Tensile strength	14-24 N/mm ²	>10	IEC 60684-2-19.1
Elongation at break	400-450 %	>250	IEC 60684-2-19.2
Longitudinal change	-5-0 %	-10<>+5	IEC 60684-2-9
Concentricity supplied (total wall)	80 %	>65	IEC 60684-2-3
Concentricity fully recovered (outer wall)	90 %	>85	IEC 60684-2-3
Secant Modulus	70-125 N/mm ²	50<>175	IEC 60684-2-19.4
Relative Density	1.27-1.38 g/cm ³	-	IEC 60684-2-4

3M Deutschland GmbH
Carl-Schurz-Str.1
41453 Neuss
Germany

Reference: AABBC06082#EN 04

© 3M 2020 All Rights Reserved.

Issue date 25.05.2020
Supersedes 10.05.2019

Thermal Tests	Value	Requirement	Test Method
Continuous Operating Temperature	-55<>135 °C		IEC 60684-2-37
Shrink Temperature	135<>280 °C		
Heat Shock		4 hrs at 200 °C	IEC 60684-2-6
Tensile strength	13-16 N/mm ²	>10	IEC 60684-2-19
Elongation at break	390-480 %	>200	IEC 60684-2-19
Low Temperature Flexibility	Pass	4 hrs at -55 °C No cracking after bending	IEC 60684-2-14
Copper Corrosion	Pass	No Corrosion	IEC 60684-2-33
Flammability	pass	C (30s, 75 mm)	IEC 60684-2-26
Electrical Tests			
Volume resistivity	10 ¹⁴ Ωm	>10 ¹² at room temp.	IEC 60684-2-23
Breakdown voltage	21-45 kV/mm	>21	IEC 60684-2-21
Chemical Tests			
Selected fluids according to table 5 of IEC 60684-3-212 at 23 °C, 24 hrs	Pass N/mm ² / %	Tensile/Elongation >7 / >200	IEC 60684-2-36

3. User Information

3.1 Product Guide

Part Number	Expanded ID min. (mm)	Recovered ID max. (mm)	Recovered Wall Thickness (nominal) (mm)
1.2	1.2	0.6	0.4
1.6	1.6	0.8	0.4
2.4	2.4	1.2	0.5
3.2	3.2	1.6	0.5
4.8	4.8	2.4	0.5
6.4	6.4	3.2	0.6
9.5	9.5	4.8	0.6
12.7	12.7	6.4	0.6
19.0	19.0	9.5	0.9
25.4	25.4	12.7	1.0
38.0	38.0	19.0	1.0
51.0	51.0	25.4	1.1
76.0	76.0	38.0	1.3
102.0	102.0	51.0	1.4

3M Deutschland GmbH
Carl-Schurz-Str.1
41453 Neuss
Germany

Reference: AABBC06082#EN 04

© 3M 2020 All Rights Reserved.

Issue date 25.05.2020
Supersedes 10.05.2019

3.2 Agency Approvals and Self Certifications

- For RoHS information, please visit www.3M.com/RoHS

3.3 Shelf Life and Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled area (10 °C to 27 °C and <75 % relative humidity).

4. Additional Information

To request additional product information, see address below.

Important Notice

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M 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 3M 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.

All questions of warranty and liability relating to 3M products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

3M is a trademark of the 3M Company.

3M Deutschland GmbH
Carl-Schurz-Str.1
41453 Neuss
Germany

Reference: AABBC06082#EN 04
© 3M 2020 All Rights Reserved.

Issue date 25.05.2020
Supersedes 10.05.2019