



# 3M™ Wheel Weights

## Technical Data Sheet



3M™ Wheel Weights are designed to be cut to weight to meet your precision balancing requirements and are provided as levelwound rolls. 3M Wheel Weights feature industry leading 3M™ Attachment Tape, which has been used over many years to attach a wide variety of trim accessory parts to millions of vehicles. 3M's tape expertise, combined with the conformable wheel balancing material, provides an all-in-one, securely attached wheel weight balancing system.

3M Wheel Weights offer the following key features:

- Automated and semi-automated processing in the OEM assembly plant
- Reduced inventory and overall systems cost - one product replaces dozens of clip-on weights
- Reduced residual imbalance in the wheel assembly, reducing the number of balance rejects
- Elimination of the chance of picking the incorrect weight from the bin.
- Cut to exact length for better balance and ride
- Corrosion and stain free
- Dependable attachment through the use of 3M™ Attachment Tape Technology

### Product Availability

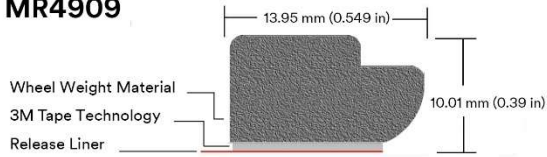
Product Number	3M Stock Number	Roll Length	Profile Width x Height
MR4909 – LW	70-0711-0565-7	146.5 M (160.2 yd)	13.95 mm (0.55 in) x 10.01 mm (0.39 in)
TN4015E - LW	70-0711-0605-1	199.2 M (217.85 yd)	15.0 mm (0.59 in) x 5.6 mm (0.22 in)
TN4019E – LW	70-0711-0618-4	225.0 M (246.06 yd)	19.0 mm (0.75 in) x 4.0 mm (0.16 in)
TN4020E – LW	70-0711-0615-0	145.57 M (159.2 yd)	20.0 mm (0.79 in) x 6.0 mm (0.24 in)
TN4023E – LW	70-0711-0427-0	181.4 M (198.38 yd)	23.0 mm (0.91 in) x 4.30 mm (0.17 in)
TN4024E - LW	70-0711-0621-8	199 M (217.63 yd)	24.0 mm (0.94 in) x 4.0 mm (0.16 in)
TN4029E - LW	70-0711-0370-2	98.44 M (107.65 yd)	28.70 mm (1.13 in) x 6.1 mm (0.24 in)
TN6020E - LW	70-0711-0617-6	145.57 M (159.2 yd)	20.0 mm (0.79 in) x 6.0 mm (0.24 in)

LW = Levelwound

## Product Construction

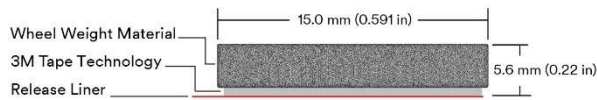
### 3M™ Mechanical Replacement Weights

#### MR4909

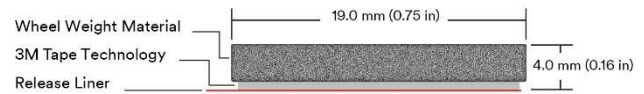


### 3M™ Wheel Weights

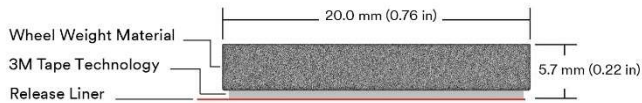
#### TN4015E



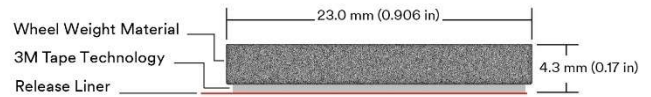
#### TN4019E



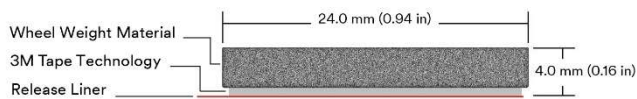
#### TN4020E



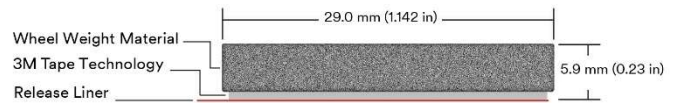
#### TN4023E



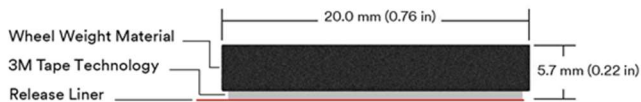
#### TN4024E



#### TN4029E



#### TN6020E



## Storage and Handling

One year from date of receipt by customer when stored at 4°C-38°C (40°F-100°F) and 0-95% relative humidity. Optimum storage conditions are 22°C (72°F) and 50% relative humidity.

## Performance Properties

Typical performance of 3M Wheel Weights is shown below. The following technical information and data is based upon limited 3M testing conditions and should not be used for specification purposes.

### Durability Testing

Test Name	Test Conditions	TN Series Results
Water Resistance	40°C immersion, 240 hours	Pass
Heat Resistance	100°C, 240 hours	Pass
Chipping Resistance	Gravelometer, #7 crushed gravel 50g, -20C, 2kg/cm <sup>2</sup> , 90 degree	Pass
High Pressure Car Wash Resistance	7MPa, 8.6l/min, RT, distance 20cm, 30s, 30 degree, pattern width 7cm	Pass
Salt Spray	X cut on face of part and 35°C, 5% NaCl fog 480 hours	Pass

**Performance Properties (continued)**

**Adhesion Testing**

Test Name	Test Conditions	3M™ Wheel Weight Results
Initial State	20°C, 24 hours	Exceeds OEM Specification
Heat Resistance	100°C, 240 hours	Exceeds OEM Specification
Water Resistance	40°C immersion, 480 hours	Exceeds OEM Specification
Hot Strength	100°C, 3 hours	Exceeds OEM Specification
Cold Strength	-30°C, 3 hours	Exceeds OEM Specification
High Pressure Car Wash Resistance	7MPa, 8.6l/min, RT, distance 20cm, 30s, 30 degrees, 7cm in pattern width	Exceeds OEM Specification

**Splicing Tape Selection Guide**

		3M™ Wheel Weight Splicing Tape 1555U, PET		3M™ Circuit Plating Tape 851, Liner Splicing Tape, Green	
		Tape Width	Part Number	Tape Width	Ordering Info
3M™ Wheel Weight	MR4909	0.25 in (6.35 mm)	70-0711-0594-7	0.25 in (6.35 mm)	Part numbers are distributor specific. Contact your 3M distributor to place an order.
	TN4014E	0.5 in (12.7 mm)	70-0711-0445-2	0.5 in (12.7 mm)	
	TN4015E	0.5 in (12.7 mm)	70-0711-0445-2	0.5 in (12.7 mm)	
	TN4019E	0.75 in (19.05 mm)	70-0711-0446-0	0.75 in (19.05 mm)	
	TN4020E	0.75 in (19.05 mm)	70-0711-0446-0	0.75 in (19.05 mm)	
	TN6020E	0.75 in (19.05 mm)	70-0711-0446-0	0.75 in (19.05 mm)	
	TN4023E	0.75 in (19.05 mm)	70-0711-0446-0	1 in (25.4 mm)	
	TN4029E	1 in (25.4 mm)	70-0711-0447-8	1 in (25.4 mm)	

**Regulatory Information**

Please refer to the product label and Safety Data Sheet (SDS) for health and safety information before using. Observe proper handling precautions as outlined in the SDS, which is available on request or at [www.3M.com/msds](http://www.3M.com/msds). To obtain published IMDS ID numbers, email requests to [3M-IMDSrequest@mmm.com](mailto:3M-IMDSrequest@mmm.com).

**Contact Information**

The information provided in this technical document is intended as a guide for these products. For more information or help in selecting a 3M product for an application, please contact your 3M technical service representative or call 1-800-328-1684.

**Technical Information:** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

**Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

**Warranty, Limited Remedy, and Disclaimer:** Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



**Automotive Division**

3M Center  
St. Paul, MN 55144-1000  
Phone 1-800-328-1684  
Web [www.3M.com/autosolutions](http://www.3M.com/autosolutions)

3M is a trademark of 3M Company  
Please recycle. Printed in USA.  
© 3M 2019 All rights reserved.