

3M™ Wheel Weights

Technical Data Sheet

General Description

The 3M™ Wheel Weights PN55409, PN55428, PN61403, PN61405 and PN99473 and 3M™ Mechanical Replacement Weight PN99427 are provided as rolls and designed to be cut to weight to meet your precision wheel balancing requirements. 3M Wheel Weights are designed to have less impact on the environment than standard lead wheel weights and features the industry-leading 3M™ Attachment Tape Technology used in numerous tape-applied attachments of component parts to vehicles. 3M's tape expertise, combined with the conformable wheel balancing material, provides an all-in-one, securely attached wheel weight balancing system.



Product Benefits

Ease of Use:

- Designed to be used with 3M™ Cutting Stand PN61480 and 3M™ Universal Cutter PN61479
- Corrosion-free feature improves wheel and overall vehicle appearance
- Product is designed to have less impact on the environment than standard lead weights
- Elimination of clip-on weights improves wheel appearance by hiding weights
- Precision cut-to-length weights improve balance and vehicle ride quality
- Two profiles, standard and low clearance

Improved Performance:

- Industry-proven 3M™ Attachment Tape Technology is used for attachment
- Precision cut-to-length weights improve wheel balance and vehicle ride quality
- Tire balance is retained with correctly located and attached weights
- Flexible product design enables one size to fit all wheel diameters

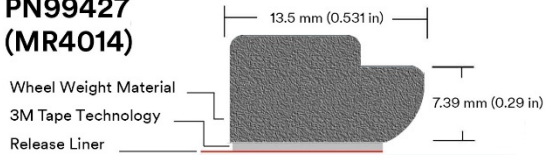
Product Portfolio

Product Number	3M Stock Number	Roll Length	Profile Width x Height
99427 (TN4014)	75-3470-8377-8	10.00 M (10.94 yd)	13.50 mm (0.53 in) x 7.40 mm (0.29 in)
61403 (TN4715)	75-3470-8517-9	10.70 M (11.70 yd)	15.00 mm (0.59 in) x 7.00 mm (0.28 in)
61405 (TN4023)	75-3470-8505-4	20.10 M (21.98 yd)	23.00 mm (0.91 in) x 4.30 mm (0.17 in)
99473 (TN4029)	75-3470-8465-1	10.92 M (11.94 yd)	28.70 mm (1.13 in) x 5.90 mm (0.23 in)
55409 (TN4020)	70-0711-0402-3	14.00 M (15.31 yd)	20.00 mm (0.79 in) x 5.70 mm (0.22 in)
55428 (TN6020)	70-0711-0426-2	14.00 M (15.31 yd)	20.00 mm (0.79 in) x 5.70 mm (0.22 in)

Product Construction

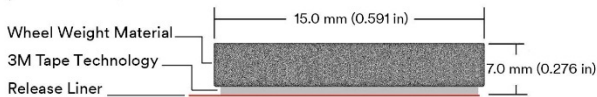
3M™ Mechanical Replacement Weights

PN99427 (MR4014)

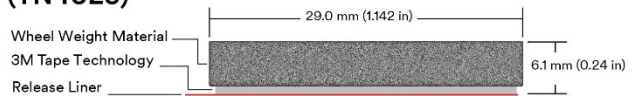


3M™ Wheel Weights

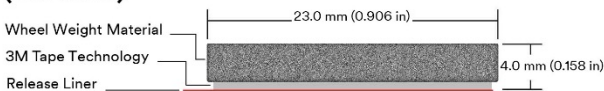
PN61403 (TN4715)



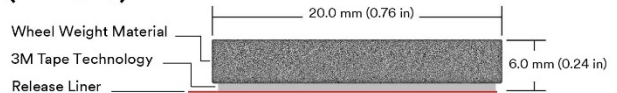
PN99473 (TN4029)



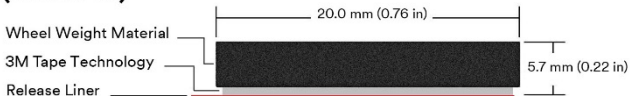
PN61405 (TN4023)



PN55409 (TN4020)



PN55428 (TN6020)



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.

3M Wheel Weight 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	3M™ Wheel Weight 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 ² , 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

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

3M Mechanical Replacement Weight Performance Properties

Durability Testing

Test Name	Test Conditions	3M™ Mechanical Replacement Weight PN99427 Results
Water Resistance	40°C immersion, 240 hours	Pass
Heat Resistance	100°C, 240 hours	Pass
Cold Resistance	4 hours minimum at -30 °C, no adhesion loss.	Pass
Chipping Resistance	Gravelometer, #7 crushed gravel 50g, -20C, 2kg/cm ² , 90 degree	Pass
High Pressure Car Wash Resistance	7MPa, 8.6l/min, RT, distance 20cm, 30s, 30 degree, pattern width 7cm	Pass

SAE J1986: Balance Weight Axial Force Values- Pluck (N)

PN99427 Part Size	Min. Force Requirement	Results
5 gram	50 N	Passes SAE J1986
10 – 15 grams	60 N	Passes SAE J1986
40 – 80 grams	200 N	Passes SAE J1986

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. To obtain published IMDS ID numbers, email requests to 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.

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