



Compound  
**VM205**

Ethylene Acrylate Rubber  
70 DUROMETER – BLACK  
Halogen Free and Flame Retardant

**PRODUCT DATA SHEET**

Compound VM205 is a 70A durometer black colored ethylene acrylate AEM elastomer(Vamac®). It is halogen free and flame retardant with good heat aging properties.

This compound will meet or exceed the specifications listed and has the following properties:

ASTM D2000 CH A25 C12

**Original Properties**

|                                      |          |           |
|--------------------------------------|----------|-----------|
| Modulous at 50% Elongation           | 319 psi  | 2.2 MPa   |
| Modulous at 100% Elongation          | 624 psi  | 4.3 MPa   |
| Tensile Strength at Break ISO 37 T2  | 1204 psi | 8.3 MPa   |
| Elongation at Breake (%)             | 465      |           |
| Hardness (Sh. A, 1 sec.), 6 mm plied | 68       |           |
| Specific Gravity (g/cc)              | 1.53     |           |
| Crescent Tear, D624, Die B           | 179 ppi  | 31.3 kN/m |
| Tg by D.S.C                          | -27 °F   | -33 °C    |

**Heat Aged: 168 hrs @ 257 °F (125 °C )**

|                                      |         |         |
|--------------------------------------|---------|---------|
| Hardness (Sh. A, 1 sec.), 6 mm plied | 72      |         |
| Hardness Change (pts.)               | 4       |         |
| M 50 %                               | 377 psi | 2.6 MPa |
| M 50% Change (%)                     | 20      | 20      |
| M 100%                               | 711 psi | 4.9 MPa |
| M 100% Change (%)                    | 15      | 15      |
| Tensile Strength at Break            | 986 psi | 6.8 MPa |
| Tensile Strength at Break Change (%) | -18     | -18     |
| Elongation at Break %                | 410     | 410     |
| Elongation at Break Change (%)       | -12     | -12     |

**TEST DATA ONLY - DO NOT USE FOR SPECIFICATION**



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**Heat Aged: 336 hrs @ 257 °F (125 °C )**

|                                      |         |         |
|--------------------------------------|---------|---------|
| Hardness (Sh. A, 1 sec.), 6 mm plied | 72      |         |
| Hardness Change (pts.)               | 4       |         |
| M 50 %                               | 421 psi | 2.9 MPa |
| M 50% Change (%)                     | 33      | 33      |
| M 100%                               | 798 psi | 5.5 MPa |
| M 100% Change (%)                    | 28      | 28      |
| Tensile Strength at Break            | 957 psi | 6.6 MPa |
| Tensile Strength at Break Change (%) | -20     | -20     |
| Elongation at Break %                | 400     | 400     |
| Elongation at Break Change (%)       | -14     | -14     |

**Heat Aged: 504 hrs @ 257 °F (125 °C )**

|                                      |         |         |
|--------------------------------------|---------|---------|
| Hardness (Sh. A, 1 sec.), 6 mm plied | 72      |         |
| Hardness Change (pts.)               | 4       |         |
| M 50 %                               | 421 psi | 2.9 MPa |
| M 50% Change (%)                     | 36      | 36      |
| M 100%                               | 827 psi | 5.7 MPa |
| M 100% Change (%)                    | 33      | 33      |
| Tensile Strength at Break            | 957 psi | 6.6 MPa |
| Tensile Strength at Break Change (%) | -20     | -20     |
| Elongation at Break %                | 377     | 380     |
| Elongation at Break Change (%)       | -18     | -18     |

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**Heat Aged: 672 hrs @ 257 °F (125 °C )**

|                                      |         |         |
|--------------------------------------|---------|---------|
| Hardness (Sh. A, 1 sec.), 6 mm plied | 71      |         |
| Hardness Change (pts.)               | 3       |         |
| M 50 %                               | 435 psi | 3.0 MPa |
| M 50% Change (%)                     | 37      | 37      |
| M 100%                               | 870 psi | 6.0 MPa |
| M 100% Change (%)                    | 41      | 41      |
| Tensile Strength at Break            | 928 psi | 6.4 MPa |
| Tensile Strength at Break Change (%) | -22     | -22     |
| Elongation at Break %                | 350     | 350     |
| Elongation at Break Change (%)       | -25     | -25     |

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