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**Technical Data Sheet**

**DYN-AC9 Black**

**Acetal Copolymer, Unfilled**

**Typical Compound Properties Value / Measure Test Methods**

| Physical Properties            | English Units | Metric Units |            |
|--------------------------------|---------------|--------------|------------|
| Density                        | 1.4 g/cm3     | 1.4 g/cm3    | ASTM D-792 |
| Melt Flow Rate @ 190° / 2.16kg | 9 g/10 min    |              | ASTM D-792 |

**Mechanical Properties**

|                            |               |           |            |
|----------------------------|---------------|-----------|------------|
| Izod Impact - Notched      | 1.00 ft-lb/in | 53 J/m    | ASTM D-256 |
| Tensile Strength @ Yield   | 8,000 psi     | 55 MPa    | ASTM D-638 |
| Tensile Elongation @ Break | 30 %          | 30 %      | ASTM D-638 |
| Flexural Strength @ Yield  | 12,500 psi    | 86 MPa    | ASTM D-790 |
| Flexural Modulus           | 330,000 psi   | 2,277 MPa | ASTM D-790 |

**Thermal Properties**

|            |            |            |
|------------|------------|------------|
| Melt Point | 330 Deg. F | 166 Deg. C |
|------------|------------|------------|

All tests are performed on dry as molded ASTM test bars.

**General Product Type Information**

DYN-AC9, is also available with internal and external lubricants, UV stabilized and other modifications. Manufactured with recycled content. Further information and details are available upon request.

**Processing Information**

| Temperatures |        | F         | C         |
|--------------|--------|-----------|-----------|
| Barrel       | Rear   | 340 - 360 | 172 - 184 |
|              | Center | 360 - 375 | 184 - 192 |
|              | Front  | 360 - 380 | 184 - 195 |
|              | Nozzle | 375 - 400 | 192 - 206 |
|              | Mold   | 170 - 200 | 77 - 94   |

**Drying**

|                 |              |
|-----------------|--------------|
| Type            | Dehumidifier |
| Temperature     | 180°F        |
| Time            | 2 - 4 hours  |
| Max. % Moisture |              |

The property values listed above have been obtained using laboratory controlled test methods. They are offered without guarantee since conditions under which the product is used are beyond our control. Therefore, Dynamic Polymer Solutions disclaims any liability for loss or damage incurred in connection with the use of this product. Optimum processing conditions will depend on such factors as machine size, screw design, part dimension, mold design, runner and gate design, and material residence time. These recommendations are intended only as a guide to achieve stable processing and good part quality.