



# Maxxam™ PPC-10G Black

## Polypropylene Copolymer

### Key Characteristics

#### Product Description

PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

#### General

|                        |                                                          |                                              |                           |
|------------------------|----------------------------------------------------------|----------------------------------------------|---------------------------|
| Material Status        | • Commercial: Active                                     |                                              |                           |
| Regional Availability  | • Africa & Middle East<br>• Asia Pacific                 | • Europe<br>• Latin America                  | • North America           |
| Filler / Reinforcement | • Glass Fiber                                            |                                              |                           |
| Features               | • Copolymer<br>• General Purpose                         | • High Impact Resistance<br>• Low Flow       |                           |
| Uses                   | • Automotive Applications<br>• Construction Applications | • Consumer Applications<br>• General Purpose | • Industrial Applications |
| Appearance             | • Black                                                  |                                              |                           |
| Forms                  | • Pellets                                                |                                              |                           |
| Processing Method      | • Injection Molding                                      |                                              |                           |

### Technical Properties <sup>1</sup>

| Physical                                               | Typical Value (English) | Typical Value (SI) | Test Method |
|--------------------------------------------------------|-------------------------|--------------------|-------------|
| Specific Gravity                                       | 0.960                   | 0.960              | ASTM D792   |
| Melt Mass-Flow Rate (MFR) <sup>2</sup> (230°C/2.16 kg) | 5.0 g/10 min            | 5.0 g/10 min       | ASTM D1238  |
| Molding Shrinkage - Flow                               | 2.0E-3 to 5.0E-3 in/in  | 0.20 to 0.50 %     | ASTM D955   |
| Mechanical                                             | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>3</sup> (Yield)                  | 5700 psi                | 39.3 MPa           | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break)                | 7.0 %                   | 7.0 %              | ASTM D638   |
| Flexural Modulus                                       | 280000 psi              | 1930 MPa           | ASTM D790   |
| Flexural Strength                                      | 6400 psi                | 44.1 MPa           | ASTM D790   |
| Impact                                                 | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact                                    |                         |                    | ASTM D256A  |
| 73°F (23°C), 0.125 in (3.18 mm), Injection Molded      | 1.4 ft-lb/in            | 75 J/m             |             |
| Thermal                                                | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load                      |                         |                    | ASTM D648   |
| 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)        | 304 °F                  | 151 °C             |             |
| Flammability                                           | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating                                           | HB                      | HB                 | UL 94       |

### Processing Information

| Injection        | Typical Value (English) | Typical Value (SI) |
|------------------|-------------------------|--------------------|
| Mold Temperature | 60.8 to 122 °F          | 16.0 to 50.0 °C    |

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**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> Procedure A<sup>3</sup> Type I, 2.0 in/min (51 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake  
+1 440 930 1000United States - McHenry  
+1 815 385 8500**Asia**China - Guangzhou  
+86 20 8732 7260China - Shenzhen  
+86 755 2969 2888China - Suzhou  
+86 512 6823 24 38China - Suzhou  
+86 512 6265 2600Hong Kong -  
+852 2690 5332Taiwan - Yonghe City,  
+886 9396 99740, +886 2929 1849**Europe**Germany - Gaggenau  
+49 7225 6802 0Spain - Barbastro (Huesca)  
+34 974 310 314*Beyond Polymers.**Better Business Solutions.™*[www.polyone.com](http://www.polyone.com)**PolyOne Americas**33587 Walker Road  
Avon Lake, Ohio 44012  
United States  
+1 440 930 1000  
+1 866 POLYONE**PolyOne Asia**No. 88 Guoshoujing Road  
Z.J Hi-tech Park, Pudong  
Shanghai, 201203, China  
+86 21 5080 1188**PolyOne Europe**6 Giällewee  
+352 269 050 35

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