

## Phillips 66 COPYLENE® CM020N Polypropylene Impact Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

**Material Notes:**

COPYLENE® CM020N is a nucleated, medium impact copolymer with an excellent balance of stiffness and impact performance for extrusion and injection processes. Applications: Extrusion and Injection Molding Information provided by Phillips 66.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Phillips-66-COPYLENE-CM020N-Polypropylene-Impact-Copolymer.php](http://www.lookpolymers.com/polymer_Phillips-66-COPYLENE-CM020N-Polypropylene-Impact-Copolymer.php)

| Physical Properties | Metric                                               | English                                              | Comments   |
|---------------------|------------------------------------------------------|------------------------------------------------------|------------|
| Density             | 0.902 g/cc                                           | 0.0326 lb/in <sup>3</sup>                            | ASTM D792  |
| Melt Flow           | 2.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 2.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ASTM D1238 |

| Mechanical Properties   | Metric   | English  | Comments                                         |
|-------------------------|----------|----------|--------------------------------------------------|
| Tensile Strength, Yield | 25.9 MPa | 3750 psi | (2 in/min); ASTM D638                            |
| Elongation at Yield     | 9.0 %    | 9.0 %    | ASTM D638                                        |
| Flexural Modulus        | 1.24 GPa | 180 ksi  | 0.05 in/mm, 1% Secant, Procedure A;<br>ASTM D790 |
| Izod Impact, Notched    | NB       | NB       | Method A; ASTM D256                              |

| Thermal Properties                          | Metric | English | Comments              |
|---------------------------------------------|--------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 102 °C | 216 °F  | Unannealed; ASTM D648 |

| Descriptive Properties | Value             | Comments                        |
|------------------------|-------------------|---------------------------------|
| Process                | Extrusion         |                                 |
|                        | Injection Molding |                                 |
| Region                 | Mexico            | Bamberger Polymers Distribution |
|                        | US & Canada       | Bamberger Polymers Distribution |

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