# Maxxam™ PP-C-20T NATURAL

Polypropylene Copolymer

**Avient Corporation**

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## Technical Data

### Product Description

Avient'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 | | |
| Literature [1] | • Technical Datasheet | | |
| Search for UL Yellow Card | • Avient Corporation<br>• Maxxam™ | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Filler, 20% Filler by Weight | • Talc | |
| Additive | • Impact Modifier | | |
| Features | • Copolymer | • General Purpose | • Impact Modified |
| Uses | • Automotive Applications<br>• Construction Applications | • Consumer Applications<br>• General Purpose | • Industrial Applications |
| Appearance | • Natural Color | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.05 | g/cm³ | ASTM D792 |
| Specific Volume | 0.954 | cm³/g | ASTM D792 |
| Melt Mass-Flow Rate (MFR) [3] (230°C/2.16 kg) | 7.0 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.80 to 1.2 | % | ASTM D955 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [4] (Yield) | 24.8 | MPa | ASTM D638 |
| Tensile Elongation [4] (Break) | 60 | % | ASTM D638 |
| Flexural Modulus | 2000 | MPa | ASTM D790 |
| Flexural Strength | 37.9 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | | | ASTM D256A |
| 23°C, 3.18 mm, Injection Molded | 59 | J/m | |
| Unnotched Izod Impact [5] (23°C, 3.18 mm) | 810 | J/m | ASTM D4812 |
| Instrumented Dart Impact - Energy to Maximum Load | 673 | J/m | ASTM D3763 |
| Gardner Impact (-23°C, 3.18 mm) | 9.26 | J | ASTM D3029 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 70 | | ASTM D785 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, 3.18 mm | 118 | °C | |

| Injection | Nominal Value | Unit |
|---|---|---|
| Mold Temperature | 16 to 50 | °C |





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## Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

[3] Procedure A

[4] Type I, 51 mm/min

[5] Injection Molded



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