



## Maxxam™ C10 T/20 H Natural

### 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                                   | • Europe                                     |                           |
| Filler / Reinforcement | • Talc, 20% Filler by Weight                             |                                              |                           |
| Features               | • Heat Stabilized                                        |                                              |                           |
| Uses                   | • Automotive Applications<br>• Construction Applications | • Consumer Applications<br>• General Purpose | • Industrial Applications |
| Appearance             | • Natural Color                                          |                                              |                           |
| Forms                  | • Pellets                                                |                                              |                           |
| Processing Method      | • Injection Molding                                      |                                              |                           |

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

| Physical                                   | Typical Value (English)        | Typical Value (SI)             | Test Method |
|--------------------------------------------|--------------------------------|--------------------------------|-------------|
| Density                                    | 1.02 to 1.06 g/cm <sup>3</sup> | 1.02 to 1.06 g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)  | 10 g/10 min                    | 10 g/10 min                    | ISO 1133    |
| Mechanical                                 | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Tensile Modulus                            | 261000 psi                     | 1800 MPa                       | ISO 527-2   |
| Tensile Stress                             | 3480 psi                       | 24.0 MPa                       | ISO 527-2   |
| Tensile Strain (Break)                     | 25 %                           | 25 %                           | ISO 527-2   |
| Impact                                     | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Notched Izod Impact Strength (73°F (23°C)) | 4.3 ft-lb/in <sup>2</sup>      | 9.0 kJ/m <sup>2</sup>          | ISO 180     |
| Thermal                                    | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Melting Temperature (DSC)                  | 320 to 329 °F                  | 160 to 165 °C                  | ISO 3146    |
| Flammability                               | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Flame Rating (0.06 in (1.6 mm))            | HB                             | HB                             | UL 94       |

#### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 1.0 hr                  | 1.0 hr             |
| Processing (Melt) Temp | 365 to 428 °F           | 185 to 220 °C      |
| Mold Temperature       | 77 to 131 °F            | 25 to 55 °C        |

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.