



# Maxxam™ PP 301(f2) NC713

## Polypropylene

### Key Characteristics

| Product Description   |                      |
|-----------------------|----------------------|
| Flame retardant       |                      |
| General               |                      |
| Material Status       | • Commercial: Active |
| Regional Availability | • Asia Pacific       |
| Features              | • Flame Retardant    |
| Appearance            | • Natural Color      |
| Processing Method     | • Injection Molding  |

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

| Physical                                          | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------------|-------------------------|--------------------|-------------|
| Specific Gravity                                  | 0.982                   | 0.982              | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         | 10 g/10 min             | 10 g/10 min        | ASTM D1238  |
| Molding Shrinkage - Flow                          | 0.012 to 0.016 in/in    | 1.2 to 1.6 %       | ASTM D955   |
| Mechanical                                        | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup>                     | 5080 psi                | 35.0 MPa           | ASTM D638   |
| Flexural Modulus <sup>3</sup>                     | 145000 psi              | 1000 MPa           | ASTM D790   |
| Flexural Strength <sup>3</sup>                    | 5510 psi                | 38.0 MPa           | ASTM D790   |
| Impact                                            | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact                               |                         |                    | ASTM D256   |
| 73°F (23°C), 0.126 in (3.20 mm)                   | 0.75 ft-lb/in           | 40 J/m             |             |
| Thermal                                           | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load                 |                         |                    | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed, 0.126 in (3.20 mm) | 212 °F                  | 100 °C             |             |
| Flammability                                      | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating (0.031 in (0.8 mm))                  | V-0                     | V-0                | UL 94       |

### Processing Information

| Injection          | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 185 °F           | 80.0 to 85.0 °C    |
| Drying Time        | 2.0 to 3.0 hr           | 2.0 to 3.0 hr      |
| Rear Temperature   | 392 to 464 °F           | 200 to 240 °C      |
| Middle Temperature | 392 to 464 °F           | 200 to 240 °C      |
| Front Temperature  | 392 to 464 °F           | 200 to 240 °C      |
| Mold Temperature   | 104 to 176 °F           | 40.0 to 80.0 °C    |

| Injection Notes              |  |
|------------------------------|--|
| Injection Pressure: MED-HIGH |  |
| Hold Pressure: MED-HIGH      |  |
| Screw Speed: MODERATE        |  |
| Back Pressure: LOW           |  |

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**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> 2.0 in/min (50 mm/min)<sup>3</sup> 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake  
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