



# Maxxam™ PP 301 EXT Natural

## Polypropylene Copolymer

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Features	<ul style="list-style-type: none"> <li>• Flame Retardant</li> <li>• Good Heat Resistance</li> <li>• Good Processability</li> </ul>	<ul style="list-style-type: none"> <li>• Good Stiffness</li> <li>• Good Strength</li> <li>• Heat Stabilized</li> </ul>	<ul style="list-style-type: none"> <li>• High Impact Resistance</li> <li>• Low Flow</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Appliances</li> <li>• Consumer Applications</li> </ul>	<ul style="list-style-type: none"> <li>• Electrical/Electronic Applications</li> <li>• General Purpose</li> </ul>	<ul style="list-style-type: none"> <li>• Industrial Applications</li> </ul>
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.01 g/cm <sup>3</sup>	1.01 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)	< 1.5 g/10 min	< 1.5 g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	1.6 to 1.8 %	1.6 to 1.8 %	
Flow	1.6 to 1.8 %	1.6 to 1.8 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	131000 psi	900 MPa	ISO 527-2/1
Tensile Stress	2900 psi	20.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	> 10 %	> 10 %	ISO 527-2/50
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	21 ft-lb/in <sup>2</sup>	45 kJ/m <sup>2</sup>	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	
Melting Temperature	320 to 329 °F	160 to 165 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 to 0.13 in (1.6 to 3.2 mm)	V-0	V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1760 °F	960 °C	

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	1.0 to 2.0 hr	1.0 to 2.0 hr
Rear Temperature	356 to 374 °F	180 to 190 °C
Middle Temperature	365 to 383 °F	185 to 195 °C
Front Temperature	374 to 392 °F	190 to 200 °C
Nozzle Temperature	383 to 392 °F	195 to 200 °C
Mold Temperature	77 to 131 °F	25 to 55 °C