



# Maxxam™ PP FR 7380-8001-ISO

## Polypropylene

### Key Characteristics

Product Description	
Polypropylene, flame retardant and low blooming	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Features	• Flame Retardant
UL File Number	• E76261
Appearance	• Black
Processing Method	• Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.03	1.03	ASTM D792
Molding Shrinkage - Flow			ISO 294-4
73°F (23°C), 48 hr, 0.118 in (3.00 mm)	1.4 to 1.9 %	1.4 to 1.9 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress			ISO 527-2/50
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	3340 psi	23.0 MPa	
Tensile Strain			ISO 527-2/50
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	220 %	220 %	
Flexural Modulus <sup>2</sup>			ISO 178
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	167000 psi	1150 MPa	
Flexural Stress <sup>2</sup>			ISO 178
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	4060 psi	28.0 MPa	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/eA
73°F (23°C), Injection Molded	5.9 ft-lb/in <sup>2</sup>	13 kJ/m <sup>2</sup>	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/Bf
66 psi (0.45 MPa), Unannealed, 0.157 in (4.00 mm)	203 °F	95.0 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+16 ohms	1.0E+16 ohms	ASTM D257
High Amp Arc Ignition (HAI)			UL 746
0.06 in (1.5 mm)	PLC 1	PLC 1	
Hot-wire Ignition (HWI) (0.06 in (1.5 mm))	PLC 3	PLC 3	UL 746
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.031 in (0.8 mm), All color)	V-0	V-0	UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1760 °F	960 °C	

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Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Glow Wire Ignition Temperature 0.06 in (1.5 mm)	1650 °F	900 °C	IEC 60695-2-13

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80.0 to 85.0 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C
Mold Temperature	86.0 to 140 °F	30.0 to 60.0 °C

#### Injection Notes

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

#### Notes

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

<sup>2</sup> 0.079 in/min (2.0 mm/min)

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