



Maxxam™ PP301 NC

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 ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	0.992	0.992	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 0.020 in/in	1.2 to 2.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	4350 psi	30.0 MPa	ASTM D638
Flexural Modulus ³	145000 psi	1000 MPa	ASTM D790
Flexural Strength ³	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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Notes¹ Typical values are not to be construed as specifications.² 2.0 in/min (50 mm/min)³ 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake
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