



# Maxxam™ PP5120R B122

## Polypropylene Homopolymer

### Key Characteristics

Product Description	
20% talc filled, high heat stabilized PP resin for injection molding.	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Filler / Reinforcement	• Talc, 20% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Processability • Good Stiffness • Good Strength • Medium Viscosity
Uses	• Automotive Applications • Consumer Applications • General Purpose • Industrial Applications
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13 g/10 min	13 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (Break, 73°F (23°C))	3920 psi	27.0 MPa	ISO 527
Flexural Modulus <sup>3</sup> (73°F (23°C))	334000 psi	2300 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength <sup>4</sup> (73°F (23°C))	0.95 ft·lb/in <sup>2</sup>	2.0 kJ/m <sup>2</sup>	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature <sup>5</sup> 264 psi (1.8 MPa), Unannealed, 0.157 in (4.00 mm)	145 °F	63.0 °C	ISO 75-2/A
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	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	356 to 428 °F	180 to 220 °C
Mold Temperature	59 to 140 °F	15 to 60 °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.

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<sup>2</sup> 0.20 in/min (5.0 mm/min)

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<sup>3</sup> 0.079 in/min (2.0 mm/min)

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<sup>4</sup> Notch A

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<sup>5</sup> Edgewise



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