



Maxxam™ NR-218.S001-8080

Polypropylene

Key Characteristics

Product Description	
Mineral reinforced PP, good heat and UV stability	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Mineral
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04	ASTM D792
Molding Shrinkage	0.90 to 1.1 %	0.90 to 1.1 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	3840 psi	26.5 MPa	ASTM D638
Tensile Elongation ² (Break)	40 %	40 %	ASTM D638
Flexural Modulus ³	320000 psi	2210 MPa	ASTM D790
Flexural Strength ³	5730 psi	39.5 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact (Injection Molded)	0.64 ft·lb/in	34 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	246 °F	119 °C	ASTM D648

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °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 to 140 °F	30 to 60 °C

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

Notes

¹ 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)