

## Optipro PP20G

The Materials Group - Polypropylene

### General Information

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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Excellent Processability
Uses	• Automotive Applications
Appearance	• Black                      • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	9.1E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11600	psi	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	435000	psi	ASTM D790
Flexural Strength (Yield)	1890	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.5	ft·lb/in	ASTM D256

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160 to 180	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	430 to 460	°F
Middle Temperature	440 to 470	°F
Front Temperature	450 to 500	°F
Nozzle Temperature	450 to 500	°F
Processing (Melt) Temp	430 to 460	°F
Mold Temperature	100 to 150	°F

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

