

## AuroraGuard™ 30GFU

Aurora Material Solutions, LLC - Polypropylene

### General Information

#### Product Description

30% Fiberglass Reinforced, UV-Stabilized, Copolymer Polypropylene, Injection Molding Grade.

Formerly Known as DualPoly 30GFU

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Uses	• Automotive Applications	• Lawn & Garden Equipment	• Material Handling
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (73°F)	10000	psi	ASTM D638
Tensile Elongation (Break, 73°F)	5.0	%	ASTM D638
Flexural Modulus - Tangent (73°F)	580000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft·lb/in	ASTM D256
Additional Information	Nominal Value	Unit	Test Method
Filler Content	30	%	

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	170	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.20	%
Suggested Shot Size	25 to 75	%
Rear Temperature	350 to 400	°F
Middle Temperature	360 to 410	°F
Front Temperature	370 to 420	°F
Nozzle Temperature	370 to 420	°F
Processing (Melt) Temp	380 to 420	°F
Mold Temperature	90 to 160	°F
Back Pressure	25.0 to 100	psi
Vent Depth	1.0E-3 to 1.5E-3	in
Injection Notes		
Maximum Drying Time	7	hrs

