

## AuroraGuard™ PP20TF1003

Aurora Material Solutions, LLC - Polypropylene Copolymer

### General Information

#### Product Description

20% Talc Reinforced Copolymer PP with up to 75% recycle content

Formerly known as Evolve PP20TF1003

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Talc, 20% Filler by Weight		
Recycled Content	• Yes, 75%		
Features	• Copolymer		
Uses	• Automotive Applications	• Lawn & Garden Equipment	• Material Handling
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	9.0E-3 to 0.013	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3800	psi	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	275000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	150	°F	ASTM D648

### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	370 to 420	°F
Middle Temperature	375 to 450	°F
Front Temperature	390 to 450	°F
Nozzle Temperature	380 to 440	°F
Processing (Melt) Temp	400 to 500	°F
Mold Temperature	65 to 130	°F

### Notes

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

