

AuroraGuard™ PP1010U

Aurora Material Solutions, LLC - Polypropylene

General Information

Product Description

Impact Modified Dual Polymer with UV
Recycled content

Formerly known as Evolve PP1010U

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Filler, 20% Filler by Weight		
Additive	• Impact Modifier	• UV Stabilizer	
Recycled Content	• Yes		
Features	• Impact Modified	• UV Stabilized	
Uses	• Automotive Applications	• Material Handling	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2600	psi	ASTM D638
Tensile Strength (Break)	7830	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	145000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	10	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	185	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Suggested Shot Size	25 to 75	%
Rear Temperature	350 to 400	°F
Middle Temperature	360 to 410	°F
Front Temperature	380 to 420	°F
Nozzle Temperature	380 to 420	°F
Processing (Melt) Temp	380 to 420	°F
Mold Temperature	90 to 160	°F
Back Pressure	25.0 to 100	psi

Notes

¹ Typical properties: these are not to be construed as specifications.

