

AuroraGuard™ DualPoly 15GFU

Aurora Material Solutions, LLC - Polypropylene

General Information

Product Description

15% Glass reinforced Copolymer Polypropylene with 25% Sustainable content

Formerly known as GEP DualPoly 15GFU

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Recycled Content	• Yes, 25%		
Features	• Renewable Resource Content		
Uses	• Automotive Applications	• Lawn & Garden Equipment	• Material Handling
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Mechanical			
Tensile Strength (73°F)	7540	psi	ASTM D638
Tensile Elongation (Break, 73°F)	4.0	%	ASTM D638
Flexural Modulus - Tangent (73°F)	450000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	0.99	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	300	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ASTM D648
Additional Information			
Filler Content	15	%	

Processing Information

	Nominal Value	Unit
Injection		
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

