

AuroraGuard™ 3003U

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information

Product Description

High Flow, High Flex Modulus, With Proprietary Additive

Formerly known as EnValoy 3003U

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Proprietary		
Features	• High Flow		
Uses	• Appliances	• Electrical/Electronic Applications	• Power/Other Tools
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.16		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7400	psi	ASTM D638
Tensile Strength (Break)	8500	psi	ASTM D638
Tensile Elongation (Break)	> 20	%	ASTM D638
Flexural Modulus	425000	psi	ASTM D790
Flexural Strength	12500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.0	ft-lb/in	ASTM D256
Gardner Impact	250	in-lb	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	265	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	220	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F
Nozzle Temperature	480 to 520	°F
Processing (Melt) Temp	460 to 520	°F
Mold Temperature	130 to 190	°F
Back Pressure	30.0 to 70.0	psi

Injection Notes

Maximum Drying Time 4.0 hrs

