

## AuroraGuard™ ENV12-NC230

Aurora Material Solutions, LLC - Polycarbonate

### General Information

#### Product Description

Injection Molding Grade, Medical Device Applications, Suitable for EtO and Steam Sterilization at 121°C, w/Mold Release, FDA and RoHS Complaint

NC230 = To Be Assigned 5 Digit Number Indicating Clear, or Opaque Custom Color.

Contact Enviropas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV12-NC230

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Mold Release		
Features	• Ethylene Oxide Sterilizable	• Good Mold Release	• Steam Sterilizable
Uses	• Medical/Healthcare Applications		
Agency Ratings	• FDA		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	
	• Colors Available	• Opaque	
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9200	psi	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	340000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	14	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	278	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	260	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-2		Internal Method

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	500 to 540	°F
Middle Temperature	520 to 560	°F
Front Temperature	540 to 580	°F
Nozzle Temperature	550 to 600	°F
Mold Temperature	155 to 200	°F



Injection Rate	Moderate-Fast
Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm

#### Notes

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

