

# ENVIROPLAS® ENV12-NC230

Polycarbonate

ENVIROPLAS®, Inc.

## Message:

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.

General Information			
Additive	Mold Release		
Features	Ethylene Oxide Sterilizable		
	Good Mold Release		
	Steam Sterilizable		
Uses	Medical/Healthcare Applications		
Agency Ratings	FDA Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	63.4	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	750	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	137	°C	
1.8 MPa, Unannealed	127	°C	
Flammability	Nominal Value		Test Method

Flame Rating (1.50 mm)	V-2	Internal Method
Injection	Nominal Value	Unit
Drying Temperature	110	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	260 to 282	°C
Middle Temperature	271 to 293	°C
Front Temperature	282 to 304	°C
Nozzle Temperature	288 to 316	°C
Mold Temperature	68.3 to 93.3	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm

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#### Recommended distributors for this material

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