

# ENVIROPLAS® ENV12-NC100

Polycarbonate

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, Excellent For Thick Parts Without Sinks, RoHS Compliant  
NC100 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
The ENV12 Series Products Are Available With Mold Release and/or UV Stabilizer.  
Contact Enviropas Regarding UL Recognized Versions Of This Product.

General Information			
Uses	Thick-walled Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
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)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	62.0	MPa	ASTM D638
Tensile Elongation (Break)	140	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength	97.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	910	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	132	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	271 to 293	°C	
Middle Temperature	271 to 293	°C	
Front Temperature	293 to 316	°C	
Nozzle Temperature	288 to 310	°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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