

# ENVIROPLAS® ENV00-NC690

Acrylonitrile Butadiene Styrene

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, 20% Fiberglass Reinforced, RoHS Compliant

NC550 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.

The ENV00 Series Products Are Available With Mold Release and/or UV Stabilizer.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Ash Content	20	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	78.6	MPa	ASTM D638
Flexural Modulus	5000	MPa	ASTM D790
Flexural Strength	117	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	102	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	216 to 249	°C	
Middle Temperature	216 to 260	°C	
Front Temperature	221 to 266	°C	
Nozzle Temperature	227 to 274	°C	

Mold Temperature	60.0 to 82.2	°C
Injection Rate	Slow-Moderate	
Back Pressure	0.345 to 0.517	MPa
Screw Speed	30 to 60	rpm

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Recommended distributors for this material

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