

# ENVIROPLAS® ENV14-NC190

Polycarbonate

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, Flame Retardant, Impact-Modified for Increased Toughness,  
Excellent Low Temperature Impact Resistance, RoHS Compliant  
NC190 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
The ENV14 Series Products Are Available With Mold Release and/or UV Stabilizer.  
Contact Enviropas Regarding UL Recognized Versions Of This Product.

General Information			
Additive	Flame Retardant Impact Modifier		
Features	Flame Retardant Good Toughness Impact Modified Low Temperature Impact Resistance		
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)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.7	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2240	MPa	ASTM D790
Flexural Strength	88.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	480	J/m	
23°C	750	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	129	°C	ASTM D648

Flammability	Nominal Value	Test Method
Flame Rating		Internal Method
1.50 mm	V-0	
3.00 mm	5VA	
Injection	Nominal Value	Unit
Drying Temperature	110	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	260 to 282	°C
Middle Temperature	271 to 293	°C
Front Temperature	282 to 304	°C
Nozzle Temperature	277 to 299	°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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