

# ENVIRON® ENV39-NC420

Polycarbonate + PBT

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, UV Stabilized, w/Mold Release, Excellent Low Temperature Impact Resistance, Excellent Chemical Resistance, RoHS Compliant  
NC420 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.

Contact Enviropas Regarding UL Recognized Versions Of This Product.

General Information			
Additive	Mold Release		
	UV Stabilizer		
Features	Good Chemical Resistance		
	Good Mold Release		
	Good UV Resistance		
	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	1.21	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 to 1.4	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	46.9	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	1670	MPa	ASTM D790
Flexural Strength	71.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	430	J/m	
23°C	680	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	85.0	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating (3.00 mm)	HB	Internal Method
Injection	Nominal Value	Unit
Drying Temperature	110	°C
Drying Time	4.0 to 6.0	hr
Rear Temperature	243 to 266	°C
Middle Temperature	249 to 271	°C
Front Temperature	254 to 277	°C
Nozzle Temperature	254 to 277	°C
Mold Temperature	65.6 to 87.8	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 80	rpm

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#### Recommended distributors for this material

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