

# ENVIRON® ENV39-NC450

Polycarbonate + PBT

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, Flame Retardant, Impact-Modified, RoHS Compliant

NC450 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Limited Available Custom Color.

The ENV39 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		
	Impact Modified		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	50.3	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	96.1	°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	121	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	235 to 249	°C
Middle Temperature	243 to 260	°C
Front Temperature	246 to 266	°C
Nozzle Temperature	246 to 260	°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

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

