

# ENVIRON® ENV39-NC440

Polycarbonate + PBT  
ENVIROPLAS®, Inc.

Message:

Injection Molding Grade, UV Stabilized, w/Mold Release, Flame Retardant, Impact Modified, Excellent Chemical Resistance for Outdoor Applications, RoHS Compliant

NC440 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Limited Available Custom Color.

Contact Enviropas Regarding UL Recognized Versions Of This Product.

General Information			
Additive	Flame Retardant		
	Impact Modifier		
	Mold Release		
	UV Stabilizer		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Mold Release		
	Good UV Resistance		
	Impact Modified		
Uses	Outdoor Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.1 to 1.4	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	49.6	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1940	MPa	ASTM D790
Flexural Strength	77.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	680	J/m	ASTM D256
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			Internal Method
1.50 mm	V-0		
3.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	243 to 266	°C	
Middle Temperature	243 to 266	°C	
Front Temperature	249 to 271	°C	
Nozzle Temperature	243 to 266	°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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