

AuroraTec™ ENV39-NC500

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

Injection Molding Grade, 30% Fiberglass Reinforced, Low Warpage, Excellent Mechanical and Thermal Performance, RoHS Compliant
 NC500 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
 The ENV39 Series Products Are Available With Mold Release and/or UV Stabilizer.
 Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIRON® ENV39-NC500

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Low Warpage		
Uses	• Appliances	• Automotive Lighting	• Automotive Under the Hood
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Ash Content	30	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	16000	psi	ASTM D638
Flexural Modulus	1.05E+6	psi	ASTM D790
Flexural Strength	25600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.6	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	405	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F
Nozzle Temperature	470 to 500	°F
Mold Temperature	150 to 200	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 100	psi
Screw Speed	50 to 80	rpm

