

AuroraTec™ ENV39-NC510

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

Injection Molding Grade, 30% Fiberglass Reinforced, Flame Retardant, Impact-Modified for Improved Toughness and Ductility, RoHS Compliant
 NC510 = 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 Enviropas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIRON® ENV39-NC510

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Flame Retardant	• Impact Modifier	
Features	• Ductile	• Good Toughness	
	• Flame Retardant	• Impact Modified	
Uses	• Appliances	• Automotive Applications	• Electrical/Electronic Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.58		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3	in/in	ASTM D955
Ash Content	30	%	ASTM D5630
Mechanical			
Tensile Strength (Break)	14500	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	965000	psi	ASTM D790
Flexural Strength	23500	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	1.7	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	315	°F	ASTM D648
Flammability			
Flame Rating			Internal Method
0.06 in	V-0		
0.12 in	5VA		

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	480 to 520	°F
Middle Temperature	490 to 530	°F
Front Temperature	500 to 540	°F



Nozzle Temperature	490 to 530 °F
Mold Temperature	150 to 190 °F
Injection Rate	Moderate
Back Pressure	50.0 to 100 psi
Screw Speed	50 to 80 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

