

AuroraTec™ ENV39-NC450

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

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 Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIRON® ENV39-NC450

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant • Impact Modifier		
Features	• Flame Retardant • Impact Modified		
Uses	• Industrial Applications • Material Handling	• Outdoor Applications • Recreational Vehicle Applications	
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	1.29		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7300	psi	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	304000	psi	ASTM D790
Flexural Strength	11000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	8.5	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	205	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			Internal Method
0.06 in		V-0	
0.12 in		5VA	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	455 to 480	°F
Middle Temperature	470 to 500	°F
Front Temperature	475 to 510	°F
Nozzle Temperature	475 to 500	°F



Mold Temperature	150 to 190 °F
Injection Rate	Moderate-Fast
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.

