

AuroraTec™ ENV39-NC490

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

Foamable - Injection Molding Grade, Fiberglass Reinforced, Flame Retardant, UV Stabilized, Good Chemical and Heat Resistance, RoHS Compliant

NC490 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Limited Available Custom Color.

Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIRON® ENV39-NC490

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 7.5% Filler by Weight		
Additive	• Flame Retardant	• UV Stabilizer	
Features	• Chemical Resistant	• Foamable	• UV Resistant
	• Flame Retardant	• High Heat Resistance	
Uses	• Electrical Housing	• Industrial Applications	• Outdoor 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			ASTM D792
--	1.27		
-- ²	1.14		
Molding Shrinkage - Flow	0.040 to 0.060	in/in	ASTM D955
Ash Content	7.5	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 0.236 in)	7000	psi	ASTM D638
Flexural Modulus (0.236 in)	422000	psi	ASTM D790
Flexural Strength (0.236 in)	11600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.236 in)	3.5	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.236 in)	224	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³			Internal Method
0.12 in	•	V-0	
	•	5VA	
0.24 in	•	V-0	
	•	5VA	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	220	°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

Notes

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

² Foamed at 6mm

³ Pending UL submission

