

AuroraTec™ ENV39-NC480

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

Foamable - Injection Molding Grade, 7.5 % Fiberglass Reinforced, Good Chemical and Heat Resistance, RoHS Compliant.
 NC480 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Limited Available Custom Color.
 Contact Enviropas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIRON® ENV39-NC480

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		
Features	• Chemical Resistant	• Foamable	• 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	1.26		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Ash Content	7.5	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	7100	psi	ASTM D638
Flexural Modulus	455000	psi	ASTM D790
Flexural Strength	11200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	370	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	220	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	440 to 470	°F
Middle Temperature	450 to 480	°F
Front Temperature	460 to 490	°F
Nozzle Temperature	450 to 480	°F
Mold Temperature	120 to 160	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 100	psi
Screw Speed	50 to 80	rpm

