

**AuroraTec™ ENV39-NC400**

Aurora Material Solutions, LLC - Polycarbonate + PBT

**General Information**
**Product Description**

Injection Molding Grade, UV Stabilized, w/Mold Release, Excellent Low Temperature Impact Resistance, Excellent Chemical Resistance, Outdoor Electrical Enclosures, RoHS Compliant  
 NC400 = 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-NC400

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• Mold Release • UV Stabilizer
Features	• Chemical Resistant • Low Temperature Impact Resistance • Good Mold Release • UV Resistant
Uses	• Electrical Housing • Outdoor Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Black • Colors Available • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

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	8.0E-3 to 0.011	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6800	psi	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	262000	psi	ASTM D790
Flexural Strength	9500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	7.6	ft·lb/in	
73°F	12	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	154	°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	230	°F
Drying Time	4.0 to 6.0	hr
Rear Temperature	450 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F



Nozzle Temperature	470 to 500 °F
Mold Temperature	125 to 175 °F
Injection Rate	Moderate-Fast
Back Pressure	50.0 to 100 psi
Screw Speed	50 to 100 rpm

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

