

**AuroraTec™ ENV39-NC930**

Aurora Material Solutions, LLC - Polycarbonate + PBT

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

Injection Molding Grade, Impact Modified for Exceptional Low Temperature Performance, UV Stabilized for Outdoor Exposures, Outstanding Chemical Resistance, w/Mold Release. REACH and RoHS Compliant.  
 NC930 Indicates a 5 Digit Color Number Representing a Natural, Black or Opaque Custom Color. The ENV39 Series of Products are Available with, Process, Thermal and/or UV Stabilizers, Antimicrobial or Other Special Use Additives.

Formerly known as ENVIRON® ENV39-NC930

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier	• Mold Release	• UV Stabilizer
Features	• Chemical Resistant • Good Mold Release	• Impact Modified • Low Temperature Impact Resistance	• UV Stabilized
Uses	• Industrial Applications • Material Handling	• Medical/Healthcare Applications • Outdoor Applications	• Recreational Vehicle Applications • Sporting Goods
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.28		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.014 to 0.018	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6600	psi	ASTM D638
Tensile Elongation (Break)	160	%	ASTM D638
Flexural Modulus	289000	psi	ASTM D790
Flexural Strength	9900	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°F	12	ft·lb/in	
73°F	16	ft·lb/in	
Gardner Impact (73°F)	400	in·lb	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	230	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	450 to 470	°F
Middle Temperature	470 to 490	°F
Front Temperature	480 to 510	°F



Nozzle Temperature	480 to 510 °F
Mold Temperature	110 to 170 °F
Injection Rate	Moderate-Fast
Back Pressure	50.0 to 200 psi
Screw Speed	50 to 80 rpm

#### Notes

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

