

**AuroraGuard™ ENV13-71087**

Aurora Material Solutions, LLC - Polycarbonate

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

AuroraGuard™ ENV13-71087 is a 10% fiberglass reinforced, black Polycarbonate (PC) injection molding grade.

Formerly branded as ENVIROPLAS®

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • Europe • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• Good Heat Resistance • Good Mold Release • Good Toughness
Uses	• Automotive Applications • Electrical/Electronic Applications • Construction Applications • Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH) - SVHC Free
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.26		ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ISO 1133
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	10000	psi	ISO 527-1
Tensile Elongation (Break)	4.0	%	ISO 527-1
Flexural Modulus	534000	psi	ISO 178
Flexural Strength	18000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	4.8	ft·lb/in <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ISO 75-2
Vicat Softening Temperature	289	°F	ISO 306
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	509 to 540	°F
Middle Temperature	531 to 560	°F
Front Temperature	531 to 560	°F
Nozzle Temperature	480 to 520	°F
Mold Temperature	180 to 200	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 300	psi
Screw Speed	40 to 70	rpm

