

**AuroraTec™ ENV29-70882**

Aurora Material Solutions, LLC - Polycarbonate + PBT

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

Injection Molding Grade, Black, 30% Fiberglass Reinforced, Low Warpage, Excellent Mechanical and Thermal Performance. REACH and RoHS Compliant.

Formerly branded as ENVIRON®.

**General**

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• High Heat Resistance	• High Rigidity	• Low Warpage
Uses	• Appliances	• Automotive Under the Hood	• Lawn & Garden Equipment
	• Automotive Applications	• Industrial Applications	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.51		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 5.0E-3	in/in	ASTM D955
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Break)	16300	psi	ASTM D638
Tensile Elongation (Break)	2.2	%	ASTM D638
Flexural Modulus	1.16E+6	psi	ASTM D790
Flexural Strength	27700	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F)	1.5	ft-lb/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed)	345	°F	ASTM D648
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (0.06 in)	HB		Internal Method

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	230	°F
Drying Time	4.0 to 6.0	hr
Rear Temperature	480 to 520	°F
Middle Temperature	490 to 530	°F
Front Temperature	500 to 540	°F
Nozzle Temperature	490 to 530	°F
Mold Temperature	150 to 190	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 100	psi
Screw Speed	50 to 80	rpm

