

**AuroraGuard™ ENV34-18021**

Aurora Material Solutions, LLC - Polycarbonate + SAN

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

AuroraGuard™ ENV34-20G18021 is a 20% Fiberglass Reinforced, Natural Polycarbonate/SAN Injection Molding Grade,

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Good Heat Resistance • Impact Modified • Good Mold Release • UV Stabilized
Uses	• Automotive Applications • Construction Applications • Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
UL File Number	• E.192776
Appearance	• Natural Color
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	1.29		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 4.0E-3	in/in	ASTM D955
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	1.00E+6	psi	ASTM D638
Tensile Strength (Break)	17100	psi	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Flexural Strength	25300	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)	260	°F	ASTM D648
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (0.12 in)	HB		UL 94

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	185 to 215	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	470 to 510	°F
Middle Temperature	490 to 530	°F
Front Temperature	510 to 550	°F
Nozzle Temperature	500 to 540	°F
Mold Temperature	150 to 190	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 200	psi
Screw Speed	40 to 70	rpm

