

**AuroraTec™ ENV39-20138**

Aurora Material Solutions, LLC - Polycarbonate + PBT

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

AuroraTec™ ENV39-20138 is a 30% Fiberglass Reinforced, Impact-Modified, UV Stabilized, Blue Polycarbonate/Polybutylene Terephthalate (PC/PBT) Injection Molding Grade,

Formerly branded as ENVIRON®.

**General**

Material Status	• Commercial: Active
Availability	• Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Impact Modifier • Mold Release • UV Stabilizer
Features	• Chemical Resistant • Good Mold Release
Uses	• Consumer Applications • Electrical/Electronic Applications • Outdoor Applications
Agency Ratings	• EC 1907/2006 (REACH) - SVHC Free
RoHS Compliance	• RoHS Compliant
Appearance	• Blue
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.43		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15000	psi	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	1.50E+6	psi	ASTM D790
Flexural Strength	27000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	320	°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	215 to 225	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	470 to 510	°F
Middle Temperature	480 to 520	°F
Front Temperature	490 to 530	°F
Nozzle Temperature	490 to 530	°F
Mold Temperature	150 to 190	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 300	psi
Screw Speed	50 to 80	rpm

