

**AuroraTec™ ENV39-71898**

Aurora Material Solutions, LLC - Polycarbonate + PBT

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

AuroraTec™ ENV39-71898 is an Impact-Modified, UV stabilized, Black Polycarbonate / Polybutylene Terephthalate (PC/PBT) Injection Molding Grade, Provides Solvent Resistance and Good Low Temperature Impact Ductility.

**General**

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
	• Europe		
Uses	• Automotive Applications	• Consumer Applications	• Outdoor Applications
	• Construction Applications	• Electrical/Electronic Applications	
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	1.22		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow	7.0E-3 to 0.010	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8200	psi	ASTM D638
Tensile Elongation (Break)	> 100	%	ASTM D638
Flexural Modulus	296000	psi	ASTM D790
Flexural Strength	11800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°F	3.4	ft-lb/in	
32°F	10	ft-lb/in	
73°F	13	ft-lb/in	
Gardner Impact <sup>2</sup>	480	in-lb	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	192	°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	185 to 215	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	450 to 480	°F
Middle Temperature	460 to 490	°F
Front Temperature	480 to 510	°F
Nozzle Temperature	480 to 510	°F
Mold Temperature	150 to 180	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 200	psi
Screw Speed	50 to 80	rpm

