

AuroraTec™ 291-70000

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

Injection Molding Grade, 30% Fiberglass Reinforced, Black, Flame Retardant, w/Mold Release. UL94 Flame Rated Product. REACH and RoHS Compliant.

Formerly known as ENVIRON® 291-70000

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Flame Retardant	• Mold Release	
Features	• Chemical Resistant • Flame Retardant	• Good Mold Release • Low Shrinkage	• Low Warpage
Uses	• Electrical/Electronic Applications • Housings	• Material Handling • Structural Parts	• Thin-walled Parts
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
UL File Number	• E.192776		
Appearance	• Black		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.57		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical			
Tensile Strength (Break)	18000	psi	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	1.42E+6	psi	ASTM D790
Flexural Strength	28000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	1.4	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
RTI Elec (0.09 to 0.11 in)	176	°F	UL 746B
RTI Imp (0.09 to 0.11 in)	176	°F	UL 746B
RTI Str (0.09 to 0.11 in)	176	°F	UL 746B
Flammability			
Flame Rating (0.09 to 0.11 in)	• V-0 • 5VA		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	470 to 490	°F



Middle Temperature	470 to 490 °F
Front Temperature	490 to 510 °F
Nozzle Temperature	470 to 490 °F
Mold Temperature	150 to 190 °F
Injection Rate	Moderate
Back Pressure	50.0 to 150 psi
Screw Speed	50 to 80 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

