

AuroraTec™ ENV39-A35D0005R-7000

Aurora Material Solutions, LLC - *Polybutylene Terephthalate*
General Information
Product Description

AuroraTec™ ENV39-A35D0005R-7000 is a 35% Fiberglass/Mineral Reinforced, Impact Modified, High Flow, Black Polybutylene Terephthalate Injection Molding Grade.

Formerly branded as ENVIRON®

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber\Mineral, 35% Filler by Weight
Features	• Low Warpage
Uses	• Automotive Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Ash Content	30	%	ASTM D5630
Mechanical			
Tensile Strength (Break)	10300	psi	ASTM D638
Flexural Modulus	728000	psi	ASTM D790
Flexural Strength	16300	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	2.5	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	360	°F	ASTM D648
Flammability			
Burning Rate (Self-Extinguishing)	< 1.0	in/min	ISO 3795
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	185 to 225	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F
Nozzle Temperature	470 to 500	°F
Mold Temperature	150 to 200	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 150	psi
Screw Speed	50 to 80	rpm

