

AuroraTec™ ENV29-1210LT-BK

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

AuroraTec™ ENV29-1210ILT-BK is a Flame Retardant, Impact-Modified, UV Stabilized, Black Polycarbonate / Polybutylene Terephthalate (PC/PBT Paintable Injection Molding Grade).

Formerly branded as ENVIRON®.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
	• Europe	• North America	
Additive	• Flame Retardant	• Mold Release	• UV Stabilizer
Features	• Flame Retardant	• Good Mold Release	• UV Stabilized
Uses	• Electrical/Electronic Applications	• Outdoor Applications	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
UL File Number	• E.192776		
Appearance	• Black		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	8.0E-3 to 0.010	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7900	psi	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	5.0	ft·lb/in	
73°F	12	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	210	°F	ASTM D648
RTI Elec (0.06 in)	176	°F	UL 746B
RTI Imp (0.06 in)	176	°F	UL 746B
RTI Str (0.06 in)	176	°F	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	215 to 230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	480 to 500	°F
Middle Temperature	480 to 500	°F
Front Temperature	500 to 540	°F



Nozzle Temperature	480 to 520 °F
Mold Temperature	150 to 190 °F
Injection Rate	Moderate-Fast
Back Pressure	50.0 to 200 psi
Screw Speed	50 to 80 rpm

Notes

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

