

AuroraGuard™ ENV11-19432

Aurora Material Solutions, LLC - Polycarbonate

General Information
Product Description

AuroraGuard™ ENV11-19432 is an Unfilled, Heat and UV Stabilized, Clear Polycarbonate (PC) Injection Molding Grade.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • Europe • North America
Additive	• Mold Release • UV Stabilizer
Features	• Good Heat Resistance • Good Mold Release • UV Stabilized
Uses	• Construction Applications • Electrical/Electronic Applications • Lighting Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Clear - Blue Tint
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	341000	psi	ASTM D638
Tensile Strength (Yield)	9100	psi	ASTM D638
Tensile Elongation (Break)	> 70	%	ASTM D638
Flexural Modulus	334000	psi	ASTM D790
Flexural Strength	13100	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	15	ft-lb/in	ASTM D256
Gardner Impact (73°F)	560	in-lb	ASTM D5420
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	260	°F	ASTM D648
Flammability			
Flame Rating (0.06 in)	V-2		Internal Method

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	500 to 540	°F
Middle Temperature	500 to 540	°F
Front Temperature	500 to 540	°F
Nozzle Temperature	480 to 520	°F
Mold Temperature	160 to 200	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 200	psi
Screw Speed	40 to 70	rpm

