

AuroraGuard™ ENV15-NC580

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information

Product Description

- Injection Molding Grade, Non-Halogenated - Non-Chlorinated Flame Retardant, Easy Flow, UV Stabilized, w/Mold Release, RoHS Compliant
- A specially designed anti-microbial compound which incorporates a germ killer for health care and sanitary equipment, and furniture applications.
- (NC580) = 5 Digit Black, Natural, or Custom Color Number

Formerly known as ENVIROLOY® ENV15-NC580

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Mold Release		
	• UV Stabilizer		
Features	• Chlorine Free	• Good Flow	• Microbe Resistant
	• Flame Retardant	• Halogen Free	
Uses	• Furniture	• Medical/Healthcare Applications	• Sanitary Products
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8800	psi	ASTM D638
Tensile Elongation (Break)	65	%	ASTM D638
Flexural Modulus	345000	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	10	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	195	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	V-0		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	480 to 530	°F
Middle Temperature	480 to 530	°F
Front Temperature	490 to 550	°F
Nozzle Temperature	480 to 520	°F
Mold Temperature	150 to 200	°F
Injection Rate	Moderate-Fast	



Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm

Notes

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

