

AuroraGuard™ ENV15-NC380

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information
Product Description

Injection Molding Grade, Non-Halogenated - Non-Chlorinated Flame Retardant,
 High Flow, Hydrolytically Stable, RoHS Compliant
 NC380 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
 The ENV15 Series Products Are Available With Mold Release and/or UV Stabilizer.
 Contact Enviropas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROLOY® ENV15-NC380

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Chlorine Free • Flame Retardant	• Halogen Free • High Flow	• Hydrolytically Stable
Uses	• Appliances • Automotive Applications	• Electrical Parts • Fluid Handling	
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	1.19		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
260°C/2.16 kg	22	g/10 min	
260°C/5.0 kg	48	g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8900	psi	ASTM D638
Tensile Elongation (Break)	40	%	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			Internal Method
0.06 in	V-0		
0.12 in	5VA		

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	440 to 500	°F
Middle Temperature	440 to 510	°F



Front Temperature	470 to 530 °F
Nozzle Temperature	470 to 530 °F
Mold Temperature	140 to 180 °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.

