

AuroraGuard™ ENV15-NC790

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information

Product Description

Profile Extrusion - Injection Molding Grade, Flame Retardant, RoHS Compliant
 NC790 = 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-NC790

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant		
Uses	• Construction Applications	• Industrial Applications	• Profiles
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding	• Profile Extrusion	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	10	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)	8600	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	335000	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.

