

AuroraGuard™ ENV15-NC540

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information

Product Description

Injection Molding Grade, 20% Fiberglass Reinforced, RoHS Compliant
 NC540 = 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 Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROLOY® ENV15-NC540

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Uses	• Automotive Applications	• Construction Applications	• Electrical/Electronic Applications
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	1.25		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Ash Content	20	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	11000	psi	ASTM D638
Flexural Modulus	851000	psi	ASTM D790
Flexural Strength	17500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.3	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	< 270	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	243	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		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	460 to 500	°F
Middle Temperature	470 to 520	°F
Front Temperature	480 to 530	°F
Nozzle Temperature	470 to 520	°F
Mold Temperature	170 to 210	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

