

AuroraGuard™ ENV49-NC750

Aurora Material Solutions, LLC - Polysulfone + PC

General Information
Product Description

Injection Molding Grade, 20% Fiberglass Reinforced, Flame Retardant, Excellent Thermal Performance, High Mechanical Strength and Stiffness, RoHS Compliant
 NC750 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
 The ENV49 Series Products Are Available With Mold Release and/or UV Stabilizer.
 Contact Enviropas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV49-NC750

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Flame Retardant • High Stiffness • High Heat Resistance • High Strength
Uses	• Appliances • Electrical Parts
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	1.37		ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15400	psi	ASTM D638
Flexural Modulus	782000	psi	ASTM D790
Flexural Strength	23100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.4	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	331	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	• V-0 • 5VA		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	275	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	610 to 630	°F
Middle Temperature	620 to 650	°F
Front Temperature	640 to 670	°F
Nozzle Temperature	630 to 650	°F
Mold Temperature	210 to 230	°F
Injection Rate	Moderate	
Back Pressure	0.00 to 50.0	psi
Screw Speed	40 to 70	rpm

