AuroraGuard™ ENV13-NC170
Aurora Material Solutions, LLC - *Polycarbonate*

General Information

Product Description

Injection Molding Grade, Foamable, 10% Fiberglass Reinforced, Black, Flame Retardant,
w/Mold Release, RoHS Compliant
Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV13-NC170

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Additive	• Flame Retardant • Mold Release
Features	• Flame Retardant • Foamable • Good Mold Release
Uses	• Automotive Applications • Construction Applications • Electrical/Electronic Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.27		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Ash Content	10	%	ASTM D5630

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	9000	psi	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Flexural Strength	15000	psi	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft·lb/in	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	288	°F	ASTM D648

Flammability	Nominal Value	Unit	Test Method
Flame Rating			Internal Method
0.09 in	• V-0 • 5VA		
0.12 in	V-0		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	540 to 580	°F
Middle Temperature	560 to 600	°F
Front Temperature	550 to 600	°F
Nozzle Temperature	560 to 610	°F

Mold Temperature	175 to 230	°F
Injection Rate	Moderate	
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.