

AuroraGuard™ ENV08-NC830

Aurora Material Solutions, LLC - Polybutylene Terephthalate

General Information
Product Description

Compounding - Injection Molding Grade, Excellent Processability, Good Chemical and Heat Resistance, Good Surface Appearance, Low Thermal Expansion, Outstanding Wear and Friction Performance.
 NC830 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
 The ENV08 Series Products Are Available With Mold Release and/or UV Stabilizer.

Formerly known as ENVIROPLAS® ENV08-NC830

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Processability	• Good Surface Finish • High Heat Resistance	• Wear Resistant
Uses	• Compounding		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Compounding	• Injection Molding	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	51	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.018 to 0.022	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	7400	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	336000	psi	ASTM D790
Flexural Strength	11800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft·lb/in	ASTM D256
Gardner Impact (73°F)	320	in·lb	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	303	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	123	°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	225	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	420 to 460	°F
Middle Temperature	420 to 460	°F
Front Temperature	430 to 470	°F
Nozzle Temperature	420 to 460	°F
Mold Temperature	120 to 160	°F
Injection Rate	Moderate	
Back Pressure	0.00 to 50.0	psi
Screw Speed	50 to 80	rpm

