

ENVIROPLAS® ENV08-NC830

Polybutylene Terephthalate

ENVIROPLAS®, Inc.

Message:

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.

General Information			
Features	Good Chemical Resistance Good Processability Good Surface Finish Good Wear Resistance High Heat Resistance		
Uses	Compounding		
Appearance	Black Colors Available Natural Color		
Forms	Pellets		
Processing Method	Compounding Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	51	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8 to 2.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	51.0	MPa	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	2320	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Gardner Impact (23°C)	36.2	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	151	°C	

1.8 MPa, Unannealed, 3.18 mm	50.6	°C
Flammability	Nominal Value	Test Method
Flame Rating (1.59 mm)	HB	Internal Method
Injection	Nominal Value	Unit
Drying Temperature	107	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	216 to 238	°C
Middle Temperature	216 to 238	°C
Front Temperature	221 to 243	°C
Nozzle Temperature	216 to 238	°C
Mold Temperature	48.9 to 71.1	°C
Injection Rate	Moderate	
Back Pressure	0.00 to 0.345	MPa
Screw Speed	50 to 80	rpm

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WECHAT