ENVIROPLAS® ENV08-NC870

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. REACH/RoHS 2 Complaint
No Colorant Version, NC870 = To Be Assigned 5 Digit Code Indicating Natural, Black, or Custom Color
The ENV08 Series of Products Are Available With Mold Release, Heat and/or UV Stabilizers, Special Use Additives

General Information	
Features	Good Processability Good Surface Finish Good Wear Resistance High Heat Resistance Low CLTE
Uses	Compounding
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black Colors Available Natural Color
Processing Method	Compounding Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	74	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.8 to 2.2	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	50.3	MPa	ASTM D638
Tensile Elongation (Break)	> 60	%	ASTM D638
Flexural Modulus	2280	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 [1] (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	53.3	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
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-Fast		
Back Pressure	0.00 to 0.345	MPa	
Screw Speed	50 to 80	rpm	
NOTE			
1.	No Failure Energy		

Recommended distributors for this material

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