ENVIROPLAS® ENV14-NC810

Polycarbonate

ENVIROPLAS®, Inc.

Message:

Injection Molding Grade, Non-Bromine - Non-Chlorine Flame retardant, Impact Modified, w/Mold Release, UV Stabilized. Ideal for Outdoor Exposure Applications Requiring Ignition, Hydrolytic and UV Resistance along with Thermal Performance.

NC810 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.

Contact Enviroplas regarding UL recognized versions of this product.

General Information				
Additive	Flame Retardant			
	Impact Modifier			
	Mold Release			
	UV Stabilizer			
Features	Bromine Free			
	Chlorine Free			
	Flame Retardant			
	Good Mold Release			
	Good UV Resistance			
	Impact Modified			
Uses	Outdoor Applications			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
	Colors Available			
	Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.20	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	16	g/10 min	ASTM D1238	
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength (Yield)	60.7	MPa	ASTM D638	
Tensile Elongation (Break)	120	%	ASTM D638	
Flexural Modulus	2340	MPa	ASTM D790	
Flexural Strength	89.6	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C)	770	J/m	ASTM D256	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	121	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			Internal Method
1.50 mm	V-0		
3.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	254 to 277	°C	
Middle Temperature	254 to 277	°C	
Front Temperature	254 to 277	°C	
Nozzle Temperature	243 to 266	°C	
Mold Temperature	65.6 to 93.3	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.00 to 0.345	MPa	
Screw Speed	40 to 70	rpm	

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Recommended distributors for this material

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