

ENVIROPLAS® ENV13-NC180

Polycarbonate

ENVIROPLAS®, Inc.

Message:

Injection Molding Grade, 20% Fiberglass Reinforced, w/Mold Release,
Increased Toughness, High Heat Resistance, RoHS Compliant
NC180 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
The ENV13 Series Products Are Available With UV Stabilizer.
Contact Enviroplas Regarding UL Recognized Versions Of This Product.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
Features	Good Mold Release		
	Good Toughness		
	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Ash Content	20	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	103	MPa	ASTM D638
Flexural Modulus	5410	MPa	ASTM D790
Flexural Strength	128	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	141	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	V-1	Internal Method	
Injection	Nominal Value	Unit	
Drying Temperature	107	°C	

Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	293 to 316	°C
Middle Temperature	304 to 327	°C
Front Temperature	316 to 338	°C
Nozzle Temperature	310 to 332	°C
Mold Temperature	82.2 to 116	°C
Injection Rate	Moderate	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

