

# ENVIROLOY® ENV15-NC580

Polycarbonate + ABS

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, Non-Halogenated - Non-Chlorinated Flame Retardant, Easy Flow, UV Stabilized, w/Mold Release, RoHS Compliant  
A specially designed anti-microbial compound which incorporates a germ killer for health care and sanitary equipment, and furniture applications.  
(NC580) = 5 Digit Black, Natural, or Custom Color Number

General Information			
Additive	Mold Release		
	UV Stabilizer		
Features	Chlorine Free		
	Flame Retardant		
	Good Flow		
	Halogen Free		
	Microbe Resistant		
Uses	Furniture		
	Medical/Healthcare Applications		
	Sanitary Products		
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/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.7	MPa	ASTM D638
Tensile Elongation (Break)	65	%	ASTM D638
Flexural Modulus	2380	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	530	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	90.6	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	V-0		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	249 to 277	°C	
Middle Temperature	249 to 277	°C	
Front Temperature	254 to 288	°C	
Nozzle Temperature	249 to 271	°C	
Mold Temperature	65.6 to 93.3	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

