

ENVIROLOY® ENV16-NC300

Polycarbonate + ABS

ENVIROPLAS®, Inc.

Message:

Injection Molding Grade, Low Gloss, Excellent For Temperature Fluctuations, RoHS Compliant

NC300 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.

The ENV16 Series Products Are Available With Mold Release and/or UV Stabilizer.

General Information			
Features	Low Gloss		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
260°C/3.8 kg	5.0	g/10 min	
260°C/5.0 kg	7.5	g/10 min	
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	53.1	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	430	J/m	
23°C	640	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	107	°C	ASTM D648
Optical	Nominal Value		Test Method
Gardner Gloss (60°, Smooth)	25		ASTM D523
Injection	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.050	%	

Rear Temperature	254 to 293	°C
Middle Temperature	254 to 293	°C
Front Temperature	266 to 304	°C
Nozzle Temperature	274 to 307	°C
Mold Temperature	65.6 to 87.8	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm

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