AuroraTec™ ENV39-NC800

Aurora Material Solutions, LLC - *Polycarbonate + PBT*

General Information

Product Description

Injection Molding Grade, w/Mold Release, Excellent Low Temperature Impact Resistance, Good Chemical Resistance, RoHS Compliant
NC800 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.

Formerly known as ENVIRON® ENV39-NC800

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Mold Release		
Features	• Chemical Resistant	• Good Mold Release	• Low Temperature Impact Resistance
Uses	• Appliances	• Automotive Applications	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	8.0E-3 to 0.011	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	6600	psi	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	292000	psi	ASTM D790
Flexural Strength	10400	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-22°F	10	ft·lb/in	
73°F	12	ft·lb/in	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	165	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 520	°F
Nozzle Temperature	480 to 520	°F
Mold Temperature	150 to 190	°F
Injection Rate	Moderate-Fast	
Back Pressure	0.00 to 50.0	psi
Screw Speed	50 to 80	rpm