

AuroraTec™ ENV39-NC430

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

Injection Molding Grade, UV Stabilized, w/Mold Release, Low Temperature Impact and Chemical Resistance, Automotive Exterior and OVAD Applications. RoHS Compliant

NC430 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.

Formerly known as ENVIRON® ENV39-NC430.

General

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

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.22		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	6.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield)	8600	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	334000	psi	ASTM D790
Flexural Strength	13100	psi	ASTM D790
Impact			
Notched Izod Impact			ASTM D256
-22°F	4.0	ft-lb/in	
73°F	13	ft-lb/in	
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	195	°F	ASTM D648
Flammability			
Flame Rating (0.12 in)	HB		Internal Method

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	230	°F
Drying Time	4.0 to 6.0	hr
Rear Temperature	470 to 510	°F
Middle Temperature	480 to 520	°F
Front Temperature	490 to 530	°F
Nozzle Temperature	490 to 530	°F
Mold Temperature	150 to 190	°F
Injection Rate	Moderate-Fast	



Back Pressure	50.0 to 100 psi
Screw Speed	50 to 80 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

