

AuroraTec™ ENV39-NC440

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information

Product Description

Injection Molding Grade, UV Stabilized, w/Mold Release, Flame Retardant, Impact Modified, Excellent Chemical Resistance for Outdoor Applications, RoHS Compliant
 NC440 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Limited Available Custom Color.
 Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIRON® ENV39-NC440

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant • Impact Modifier	• Mold Release • UV Stabilizer	
Features	• Chemical Resistant • Flame Retardant	• Good Mold Release • Impact Modified	• UV Resistant
Uses	• Construction Applications	• Electrical/Electronic Applications	• Outdoor Applications
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	1.28		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.011 to 0.014	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield)	7200	psi	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	282000	psi	ASTM D790
Flexural Strength	11300	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	13	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	185	°F	ASTM D648
Flammability			
Flame Rating			Internal Method
0.06 in	V-0		
0.12 in	5VA		

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	470 to 510	°F
Front Temperature	480 to 520	°F
Nozzle Temperature	470 to 510	°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.

