

AuroraGuard™ ENV26-NC880

Aurora Material Solutions, LLC - Acrylonitrile Styrene Copolymer

General Information

Product Description

Injection Molding Grade, Black, 20% Fiberglass Reinforced, Excellent Combined Stiffness and Toughness, UV Stabilized for Outdoor Weatherability, w/Mold Release, REACH/RoHS 2 Compliant
No Colorant Version, NC880 = To Be Assigned 5 Digit Code Indicating Natural, Black, or Custom Color
The ENV26 Series of Products Are Available With or Without Mold Release, UV Stabilizer or Special Use Additives

Formerly known as ENVIROPLAS® ENV26-NC880

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Mold Release • UV Stabilizer
Features	• Good Mold Release • Good Toughness • UV Resistant • Good Stiffness • Good Weather Resistance
Uses	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	16300	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.15E+6	psi	ASTM D790
Flexural Strength	21000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	220	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	430 to 470	°F
Middle Temperature	430 to 470	°F
Front Temperature	440 to 480	°F
Nozzle Temperature	430 to 470	°F
Mold Temperature	110 to 140	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 1000	psi
Screw Speed	40 to 70	rpm

