

AuroraGuard™ ENV00-40096

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

AuroraGuard™ ENV00-40096 is a 10% Fiberglass Reinforced, Orange Acrylonitril Butadiene Styrene Injection Molding Grade.,

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • Europe • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• Good Processing Stability
Agency Ratings	• EC 1907/2006 (REACH) - SVHC Free
RoHS Compliance	• RoHS Compliant
Appearance	• Orange
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.12		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.0	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 (Break)	9200	psi	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	543000	psi	ASTM D790
Flexural Strength	14500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.4	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.157 in)	215	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.157 in)	192	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 500	°F
Middle Temperature	460 to 500	°F
Front Temperature	480 to 520	°F
Nozzle Temperature	430 to 470	°F
Mold Temperature	160 to 180	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 300	psi
Screw Speed	Moderate	

