

AuroraGuard™ ENV00-A0503N-7000

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

AuroraGuard™ ENV00-A0503N-7000 is a Medium Flow, Black Acrylonitrile Butadiene Styrene (ABS) Injection Molding Grade.

Formerly Branded as ENVRIOPLAS.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • Europe • North America
Features	• Medium Flow
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	324000	psi	ASTM D638
Tensile Strength (Yield)	5800	psi	ASTM D638
Tensile Elongation (Yield)	3.8	%	ASTM D638
Flexural Modulus	319000	psi	ASTM D790
Flexural Strength	8400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	178	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	400 to 440	°F
Middle Temperature	410 to 450	°F
Front Temperature	420 to 460	°F
Nozzle Temperature	420 to 460	°F
Mold Temperature	120 to 140	°F
Injection Rate	Fast	
Back Pressure	50.0 to 200	psi
Screw Speed	Moderate	

