

AuroraGuard™ ENV00-19375

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

AuroraGuard™ ENV00-19375 is a Natural, Acrylonitrile Butadiene Styrene (ABS) Injection Molding Grade.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • Europe • North America
Features	• High Flow • High Impact Resistance
Uses	• General Purpose
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
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) (220°C/10.0 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5950	psi	ASTM D638
Flexural Modulus	341000	psi	ASTM D790
Flexural Strength	10600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	5.8	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	185	°F	ASTM D648
Vicat Softening Temperature	216	°F	ASTM D1525
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	2.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	374 to 446	°F
Middle Temperature	374 to 446	°F
Front Temperature	374 to 446	°F
Nozzle Temperature	374 to 446	°F
Mold Temperature	104 to 176	°F
Injection Rate	Fast	
Back Pressure	50.0 to 200	psi
Screw Speed	Moderate	

