

AuroraGuard™ ENV02-19430

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

AuroraGuard™ ENV02-19430 is a Low Gloss, Medium Impact, Natural Acrylonitril Butadiene Styrene Injection Molding Grade.,

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • Europe • North America
Features	• Medium Impact Resistance
Uses	• Automotive Applications • Electrical/Electronic Applications
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	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	13	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)	6400	psi	ASTM D638
Tensile Elongation (Break)	22	%	ASTM D638
Flexural Modulus	334000	psi	ASTM D790
Flexural Strength	8800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	5.4	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.157 in)	203	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.157 in)	180	°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	2.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	370 to 410	°F
Middle Temperature	400 to 440	°F
Front Temperature	400 to 440	°F
Nozzle Temperature	430 to 470	°F
Mold Temperature	110 to 170	°F
Injection Rate	Fast	
Back Pressure	50.0 to 300	psi
Screw Speed	Moderate	

Notes

¹ Typical properties: these are not to be construed as specifications.

