

AuroraGuard™ ABS10GF

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

10% Glass-Filled ABS

Formerly known as EnCore 10GF

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Uses	• Automotive Applications • Construction Applications
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding • Profile Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11		ASTM D792
Molding Shrinkage - Flow (0.126 in)	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	520000	psi	ASTM D790
Flexural Strength	12500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.5	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	212	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	194	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 200	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	450 to 500	°F
Middle Temperature	455 to 505	°F
Front Temperature	465 to 525	°F
Nozzle Temperature	475 to 525	°F
Processing (Melt) Temp	475 to 525	°F
Mold Temperature	175 to 200	°F
Back Pressure	25.0 to 100	psi
Screw Speed	25 to 75	rpm

Injection Notes

Maximum Drying Time 4 hrs

Notes

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

