

AuroraGuard™ ABS15GF

Aurora Material Solutions, LLC - *Acrylonitrile Butadiene Styrene*

General Information

Product Description

15% GF ABS

Formerly known as EnCore 15GF

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Features	• High Strength		
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	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/5.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13100	psi	ASTM D638
Tensile Strength (Break)	13600	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	700000	psi	ASTM D790
Flexural Strength	18000	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)	233	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	218	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 220	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	420 to 450	°F
Middle Temperature	430 to 460	°F
Front Temperature	440 to 470	°F
Nozzle Temperature	440 to 470	°F
Processing (Melt) Temp	450 to 500	°F
Mold Temperature	160 to 190	°F
Back Pressure	25.0 to 100	psi
Screw Speed	25 to 75	rpm

Notes

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

