

AuroraGuard™ 2005

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

ABS High Impact

Formerly known as EnCore 2005

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Proprietary		
Features	• Chemical Resistant	• High Impact Resistance	
Uses	• Automotive Applications	• Business Equipment	• Thin-walled Parts
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3770	psi	ASTM D638
Tensile Strength (Break)	5510	psi	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Flexural Strength	7980	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	5.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	210	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 200	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	400 to 450	°F
Middle Temperature	410 to 460	°F
Front Temperature	420 to 470	°F
Nozzle Temperature	420 to 470	°F
Processing (Melt) Temp	430 to 480	°F
Mold Temperature	90 to 150	°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.

