

AuroraGuard™ ABS-PBT 1009

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene + PBT

General Information

Product Description

Injection molding grade of ABS/PBT alloy. Combines chemical resistance with medium impact and heat resistance.

Formerly branded as EnCore.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant	• Medium Heat Resistance	• Medium Impact Resistance
Uses	• Automotive Applications	• Business Equipment	• General Purpose
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/3.8 kg)	18 g/10 min		ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6800	psi	ASTM D638
Tensile Strength (Break)	5500	psi	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Flexural Strength	9000	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
Drying Time, Maximum	8.0	hr
Suggested Max Moisture	0.020	%
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	120 to 170	°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.

