

AuroraGuard™ 212

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

Extrusion Grade ABS
Formerly known as EnCore 212

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Profiles	• Thermoforming Applications	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Extrusion	• Profile Extrusion	• Sheet Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.03		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/10.0 kg	13	g/10 min	
200°C/5.0 kg	1.4	g/10 min	
Molding Shrinkage - Flow (0.126 in)	4.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5600	psi	ASTM D638
Tensile Elongation (Break)	4.4	%	ASTM D638
Flexural Modulus	260000	psi	ASTM D790
Flexural Strength	8400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	12	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	206	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 200	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	370 to 450	°F
Middle Temperature	400 to 475	°F
Front Temperature	425 to 500	°F
Nozzle Temperature	425 to 525	°F
Processing (Melt) Temp	425 to 525	°F
Mold Temperature	90 to 160	°F
Back Pressure	25.0 to 100	psi
Screw Speed	25 to 75	rpm

Injection Notes

Maximum Drying Time 5 hr

