

AuroraTec™ 3200

Aurora Material Solutions, LLC - Polycarbonate + ASA

General Information
Product Description

Injection molding grade of Polycarbonate / Acrylonitrile Styrene Acrylate (PC/ASA). Combines good flow, impact, and heat resistance with weatherability. Ideal for automotive, large truck, and outdoor applications.

Meets Volvo STD 411-0001 ASA+PC-1 specification.
Available in natural, black, and custom colors upon request.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Mold Release	• UV Stabilizer	
Features	• Good Flow • Good Heat Resistance	• Good Impact Resistance • Good Weather Resistance	• Heat Aging Resistant
Uses	• Agricultural Applications • Automotive Applications • Automotive Exterior Parts	• Automotive Interior Parts • Heavy Transportation • Outdoor Applications	• Solar Applications
Agency Ratings	• EC 1907/2006 (REACH) - SVHC Free		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	20	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	0.50 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	332000	psi	ISO 527-1
Tensile Stress (Yield)	8410	psi	ISO 527-2
Tensile Strain (Yield)	5.1	%	ISO 527-2
Tensile Strain (Break)	50	%	ISO 527-2
Flexural Modulus	334000	psi	ISO 178
Flexural Stress	12000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F	7.1	ft·lb/in ²	
73°F	26	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	221	°F	ISO 75-2/A
Vicat Softening Temperature	257	°F	ISO 306/B120

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 230	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	480 to 520	°F
Middle Temperature	480 to 520	°F
Front Temperature	500 to 540	°F



Nozzle Temperature	480 to 520 °F
Mold Temperature	150 to 180 °F
Injection Rate	Moderate
Back Pressure	50.0 to 150 psi
Screw Speed	40 to 80 rpm

Notes

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

