

AuroraTec™ ENV16-11002

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information

Product Description

AuroraTec™ ENV16-11002 is a low-gloss, high flow, natural Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend, injection molding grade.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Features	• Good Heat Resistance	• High Flow	• Low Gloss
Uses	• Automotive Interior Parts	• Electronic Displays	• Recreational Vehicle Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.12		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	347000	psi	ASTM D638
Tensile Strength (Yield)	7900	psi	ASTM D638
Tensile Elongation (Break)	> 60	%	ASTM D638
Flexural Modulus	345000	psi	ASTM D790
Flexural Strength	12100	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	12	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	217	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	220 to 230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	480 to 540	°F
Middle Temperature	490 to 540	°F
Front Temperature	490 to 550	°F
Nozzle Temperature	480 to 550	°F
Mold Temperature	150 to 190	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

