

AuroraTec™ PC-PBT 1016IMU

Aurora Material Solutions, LLC - Polycarbonate + PBT

General Information
Product Description

Impact Modified, UV Stabilized, Molding Grade PC/PBT

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Impact Modifier	• UV Stabilizer	
Features	• Impact Modified	• Low Temperature Impact Resistance	• UV Stabilized
Uses	• Automotive Applications	• Lawn & Garden Equipment	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.17		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	0.010 to 0.012	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7000	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	245000	psi	ASTM D790
Flexural Strength	9500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F	10	ft·lb/in	
73°F	15	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.252 in)	235	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.252 in)	200	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	225	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	480 to 520	°F
Middle Temperature	480 to 520	°F
Front Temperature	490 to 530	°F
Nozzle Temperature	480 to 520	°F
Processing (Melt) Temp	500 to 530	°F
Mold Temperature	140 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	45 to 75	rpm

Injection Notes

Maximum Drying Time 8.0 hrs

