

## AuroraGuard™ PBT-19200

Aurora Material Solutions, LLC - Polybutylene Terephthalate

### General Information

#### Product Description

AuroraGuard™ PBT-19200 is an Unreinforced General Purpose, Medium Viscosity, Natural, Polybutylene Terephthalate (PBT) Injection Molding Grade.  
Formerly branded as ENVIROPLAS®.

#### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Features	• Fuel Resistant	• Good Moldability	• Oil Resistant
	• General Purpose	• Medium Viscosity	• Solvent Resistant
Uses	• Industrial Tanks	• Monofilaments	• Pump Parts
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.31		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	55	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2E-3 to 1.8E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Strength (Break)	7500	psi	ASTM D638
Flexural Modulus	339000	psi	ASTM D790
Flexural Strength	11900	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	0.80	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	305	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	125	°F	ASTM D648
<b>Flammability</b>			
Flame Rating (0.12 in)	HB		Internal Method

### Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	185	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	445 to 490	°F
Middle Temperature	445 to 490	°F
Front Temperature	445 to 490	°F
Nozzle Temperature	470 to 490	°F
Mold Temperature	150 to 190	°F
Injection Rate	Moderate-Fast	
Back Pressure	0.00 to 50.0	psi
Screw Speed	60 to 120	rpm

