

## AuroraGuard™ 0718U

Aurora Material Solutions, LLC - Polycarbonate

### General Information

#### Product Description

FDA Compliant Polycarbonate with UV Stabilizer

Formerly known as EnPure 0718U

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• UV Stabilizer		
Features	• UV Stabilized		
Uses	• Automotive Applications	• Business Equipment	
Agency Ratings	• FDA		
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	6.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Strength (Yield)	9000	psi	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	335000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	18	ft-lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	279	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	269	°F	ASTM D648

### Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	220 to 250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 75	%
Rear Temperature	520 to 560	°F
Middle Temperature	540 to 580	°F
Front Temperature	550 to 600	°F
Nozzle Temperature	550 to 590	°F
Processing (Melt) Temp	560 to 600	°F
Mold Temperature	160 to 210	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 70	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

#### Injection Notes

Maximum Drying Time 7 hrs

