

**AuroraGuard™ 616UREX**

Aurora Material Solutions, LLC - Polycarbonate

**General Information**
**Product Description**

Branched PC with UV Stabilizer and Mold Release

Formerly known as EnPure 616UREX

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Mold Release	• UV Stabilizer	
Features	• Branched Polymer Structure	• UV Stabilized	
Uses	• Automotive Applications	• Profiles	
	• Business Equipment	• Sheet	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Extrusion	• Injection Molding	

**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)	5.0E-3 to 7.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Strength (Yield)	8900	psi	ASTM D638
Tensile Elongation (Break)	110	%	ASTM D638
Flexural Modulus	341000	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact			ASTM D256
-40°F	14	ft·lb/in	
73°F	16	ft·lb/in	
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	277	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	257	°F	ASTM D648
<b>Flammability</b>			
Flame Rating (0.63 in)	HB		UL 94

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	250	°F
Drying Time	3.0 to 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	560 to 600	°F
Nozzle Temperature	550 to 590	°F
Processing (Melt) Temp	560 to 600	°F
Mold Temperature	160 to 200	°F
Back Pressure	50.0 to 100	psi

