

AuroraGuard™ 311IML

Aurora Material Solutions, LLC - Polybutylene Terephthalate Alloy

General Information

Product Description

Extra Tough, Lubricated

Formerly known as EnCounter 311IML

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Lubricant		
Features	• Chemical Resistant	• Good Flow	• High Toughness
	• Fast Molding Cycle	• High Gloss	• Lubricated
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.23		ASTM D792
Molding Shrinkage - Flow (0.126 in)	0.019 to 0.023	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield)	5370	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	225000	psi	ASTM D790
Flexural Strength	7250	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	11	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	250	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	120	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 490	°F
Middle Temperature	460 to 490	°F
Front Temperature	470 to 500	°F
Nozzle Temperature	460 to 490	°F
Processing (Melt) Temp	470 to 500	°F
Mold Temperature	120 to 170	°F

Injection Notes

Maximum Drying Time 8 hrs

Notes

¹ Typical properties: these are not to be construed as specifications.

