

AuroraGuard™ 281

Aurora Material Solutions, LLC - *Polybutylene Terephthalate*

General Information

Product Description

0.81 IV PET

Formerly known as EnCounter 281

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Uses	• Automotive Applications	• Electrical/Electronic Applications	• General Purpose
Appearance	• Natural Color		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37		ASTM D792
Apparent (Bulk) Density	0.80	g/cm ³	Internal Method
Intrinsic Viscosity	0.81		Internal Method
Moisture Content	0.25	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8990	psi	ASTM D638
Impact	Nominal Value	Unit	Test Method
Gardner Impact	319	in·lb	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	471	°F	Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	280 to 300	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	< 0.25	%
Rear Temperature	500 to 540	°F
Middle Temperature	520 to 560	°F
Front Temperature	540 to 580	°F
Nozzle Temperature	540 to 580	°F
Processing (Melt) Temp	540 to 590	°F
Mold Temperature	50 to 120	°F

Notes

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

