

AuroraGuard™ 2419

Aurora Material Solutions, LLC - *Polybutylene Terephthalate*

General Information

Product Description

Chemically Resistant, Medium Viscosity Polybutylene Terephthalate

Formerly known as EnCounter 2419

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant	• Medium Viscosity	
Uses	• Automotive Applications	• Industrial Applications	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.31		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	20 to 24	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	0.010 to 0.015	in/in	ASTM D955
Water Absorption (Saturation)	0.20	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	8000	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Impact			
Notched Izod Impact (73°F)	1.9	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	350	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 80	%
Rear Temperature	450 to 480	°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
Back Pressure	50.0 to 100	psi
Screw Speed	50 to 100	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

Notes

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

