

AuroraTec™ PET3001

Aurora Material Solutions, LLC - Copolyester

General Information
Product Description

Polyester Copolymer

Formerly known as EnCounter 3001

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Chemical Resistant	• Copolymer	• High Clarity
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.23		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7000	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	325000	psi	ASTM D790
Flexural Strength	10000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Gardner Impact	320	in·lb	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	205	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	180	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	190	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	470 to 500	°F
Middle Temperature	480 to 510	°F
Front Temperature	490 to 520	°F
Nozzle Temperature	490 to 520	°F
Processing (Melt) Temp	500 to 540	°F
Mold Temperature	90 to 150	°F
Back Pressure	25.0 to 75.0	psi
Screw Speed	25 to 75	rpm
Vent Depth	1.0E-3	in

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