

# EnCounter 281

## PET



### Product Description

0.81 IV PET

### Special Characteristics

- Excellent Impact Strength
- Chemical Resistance
- Dimensional Stability
- Low Shrink Rates

### General Properties

Appearance	Natural
Processing Methods	Injection Molding
Applications	Automotive, Electrical, Electronics, General Industries

### Mechanical Properties

	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	9,000	psi	62	MPa
Density	ASTM D792	1.37	g/cm <sup>3</sup>	1.37	g/cm <sup>3</sup>
Gardner Impact	ASTM D3029	320+	in · lb	36	J

### Physical Properties

	Test Method	English Units		S.I. Units	
Intrinsic Viscosity	ENCQP-0012	0.81		0.81	
Moisture Content	ENCQP-0013	0.25	%	0.25	%
Melting Point, nominal	ENCQP-0016	471	F	244	C
Bulk Density	ENCQP-0018	52	lb/ft <sup>3</sup>	0.8	g/cm <sup>3</sup>

### Injection Molding

	Value	
Drying Temperature	280 - 300	°F
Drying Time	4.0 - 6.0	hrs
Maximum Drying Time	n/a	hrs
Suggested Maximum Moisture	0.25 max	%
Rear Barrel Temperatures	500 - 540	°F
Middle Barrel Temperatures	520 - 560	°F
Front Barrel Temperatures	540 - 580	°F
Nozzle Temperature	540 - 580	°F
Melt (processing) Temperatures	540 - 590	°F
Mold Temperatures	50 - 120	°F

These Data Sheet Values are Typical Values and are not intended for specification purposes. These values should only be used as a guide and no assurances by EnCom, Inc. can be granted that all molded articles will exhibit duplicate properties as those listed above. Each material user should perform their own testing for suitability.