

EnCounter F0PET15GF

PET



Product Description					
15% Glass Reinforced Flame Retardant PET UL File #E175765					
General Properties					
Appearance	Black, Natural or Colors				
Processing Methods	Injection Molding				
Applications	Automotive, Electrical, Electronics, General Industries				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	15,664	psi	108	MPa
Tensile Modulus	ASTM D638	899	psi	6	MPa
Tensile Elongation at Break	ASTM D638	3	%	3	%
Flexural Modulus	ASTM D790	937,000	psi	6,462	MPa
Flexural Strength	ASTM D790	23,206	psi	160	MPa
Notched Izod Impact (73°F)	ASTM D256	1.4	ft-lb/in	75	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.56	sp gr	1.56	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.004 - 0.008	in/in	0.102 - 0.203	mm/mm
Filler Content		15.0	%	15.0	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	460	°F	238	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	392	°F	200	°C
RTI Elec					
0.030 in (0.75 mm)	UL 746	284	°F	140	°C
0.059 in (1.5 mm)	UL 746	284	°F	140	°C
0.098 in (2.5 mm)	UL 746	284	°F	140	°C
RTI Imp					
0.030 in (0.75 mm)	UL 746	284	°F	140	°C
0.059 in (1.5 mm)	UL 746	284	°F	140	°C
0.098 in (2.5 mm)	UL 746	284	°F	140	°C
RTI Str					
0.030 in (0.75 mm)	UL 746	284	°F	140	°C
0.059 in (1.5 mm)	UL 746	284	°F	140	°C
0.098 in (2.5 mm)	UL 746	284	°F	140	°C
Electrical	Test Method	English Units		S.I. Units	
Hot Wire Ignition (HWI)					
0.030 in (0.75 mm)	UL 746	PLC 3		PLC 3	
0.059 in (1.5 mm)	UL 746	PLC 0		PLC 0	
0.098 in (2.5 mm)	UL 746	PLC 0		PLC 0	
Hot Wire Ignition (HWI)					
0.030 in (0.75 mm)	UL 746	PLC 0		PLC 0	
0.059 in (1.5 mm)	UL 746	PLC 0		PLC 0	
0.098 in (2.5 mm)	UL 746	PLC 0		PLC 0	
Comparative Tracking Index (CTI)	UL 746	PLC 3		PLC 3	

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Flammability	Test Method	English Units	S.I. Units
Flame Rating			
0.030 in (0.75 mm)	UL 94 IEC 60695-11-10, -20	V-0	V-0
0.059 in (1.5 mm)	UL 94 IEC 60695-11-10, -20	V-0, 5VA	V-0, 5VA
0.098 in (2.5 mm)	UL 94 IEC 60695-11-10, -20	V-0, 5VA	V-0, 5VA
Injection Molding		Value	
Drying Time		4.00	hrs
Maximum Drying Time		n/a	hrs
Suggested Maximum Moisture		0.02	%
Suggested Shot Size		n/a	%
Rear Barrel Temperatures		500 - 520	°F
Middle Barrel Temperatures		520 - 540	°F
Melt (processing) Temperatures		520 - 560	°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.

EnCom Polymers, Inc.

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