

# EnLon 6CF32

Polyamide 6



Product Description					
32% Carbon Fiber Filled Nylon 6					
General Properties					
Appearance	Black, Natural or Colors				
Processing Methods	Injection Molding				
Applications	Automotive, Material Handling, Industrial				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	32,000	psi	221	MPa
Tensile Modulus	ASTM D638	2,900,000	psi	20000	MPa
Tensile Elongation at Break	ASTM D638	2	%	2	%
Flexural Modulus	ASTM D790	2,900,000	psi	20,000	MPa
Flexural Strength	ASTM D790	46,000	psi	317	MPa
Notched Izod Impact (73°F)	ASTM D256	1.3	ft-lb/in	69	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.26	sp gr	1.26	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.014	in/in	0.014	mm/mm
Filler Content		32	%	32	%
Water Absorption	ASTM D570	0.01	%	0.01	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 264 psi	ASTM D648	470	°F	243	°C
Injection Molding		Value			
Drying Temperature		165 - 200	°F		
Drying Time		2.0 - 4.0	hrs		
Maximum Drying Time		4.0	hrs		
Suggested Maximum Moisture		0.02	%		
Rear Barrel Temperatures		460 - 540	°F		
Middle Barrel Temperatures		460 - 540	°F		
Front Barrel Temperatures		470 - 565	°F		
Nozzle Temperature		470 - 565	°F		
Melt (processing) Temperatures		485 - 565	°F		
Mold Temperatures		160 - 220	°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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