

# EnLon 6616GFIM

Polyamide 66



Product Description					
16% Glass Filled, Impact Modified Nylon 66					
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	14,000	psi	97	MPa
Tensile Elongation at Break	ASTM D638	15	%	15	%
Flexural Modulus	ASTM D790	550,000	psi	3,793	MPa
Flexural Strength	ASTM D790	22,000	psi	152	MPa
Notched Izod Impact (73°F)	ASTM D256	4.0	ft-lb/in	214	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.19	sp gr	1.19	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	.005 - .008	in/in	0.127 - 0.203	mm/mm
Filler Content		16	%	16	%
Flame Rating 0.062	UL 94	HB		HB	
Water Absorption	ASTM D570	0.01	%	0.01	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 264 psi	ASTM D648	428	°F	220	°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.

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