

EnLon 6650GFHSV

Polyamide 66



Product Description					
Heat Stabilized, 50% Glass Fiber Reinforced 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	31,000	psi	214	MPa
Tensile Elongation at Break	ASTM D638	3	%	3	%
Flexural Modulus	ASTM D790	1,800,000	psi	12,414	MPa
Flexural Strength	ASTM D790	46,000	psi	317	MPa
Notched Izod Impact (73°F)	ASTM D256	2.5	ft-lb/in	134	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.57	sp gr	1.57	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.003	in/in	0.076	mm/mm
Filler Content		50	%	50	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	500	°F	260	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	490	°F	254	°C
Injection Molding		Value			
Drying Temperature		180 °F			
Drying Time		3.0 - 4.0 hrs			
Maximum Drying Time		4.0 hrs			
Suggested Maximum Moisture		0.02 %			
Rear Barrel Temperatures		490 - 560 °F			
Middle Barrel Temperatures		510 - 570 °F			
Front Barrel Temperatures		520 - 570 °F			
Nozzle Temperature		540 - 570 °F			
Melt (processing) Temperatures		500 - 570 °F			
Mold Temperatures		160 - 240 °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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