

EnLon 6650GFHS

Polyamide 66



Product Description					
Heat Stabilized, 50% Glass Filled Nylon 66					
General Properties					
Appearance	Black				
Processing Methods	Injection Molding				
Applications	Automotive, Material Handling, Industrial				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	28,000	psi	193	MPa
Tensile Elongation at Break	ASTM D638	3	%	3	%
Flexural Modulus	ASTM D790	1,460,000	psi	10,069	MPa
Notched Izod Impact (73°F)	ASTM D256	3.0	ft-lb/in	160	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	0.002	in/in	0.051	mm/mm
Filler Content		50	%	50	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	480	°F	249	°C
Injection Molding		Value			
Drying Temperature		180	°F		
Drying Time		2.0 - 4.0	hrs		
Maximum Drying Time		4.0	hrs		
Suggested Maximum Moisture		0.02	%		
Rear Barrel Temperatures		520 - 540	°F		
Middle Barrel Temperatures		540 - 570	°F		
Front Barrel Temperatures		540 - 580	°F		
Nozzle Temperature		550 - 580	°F		
Melt (processing) Temperatures		550 - 580	°F		
Mold Temperatures		180 - 220	°F		
Back Pressure		20 - 60	psi		
Screw speed		60 - 120	rpm		

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.