

EnLon 6650GFV

Polyamide 66



Product Description			
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	26,000 psi	179 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	0.004 in/in	0.102 mm/mm
Filler Content		50 %	50 %
Flame Rating 0.125	UL 94	V-2	V-2
Thermal Properties	Test Method	English Units	S.I. Units
Heat Deflection Temperature @ 264 psi	ASTM D648	480 °F	249 °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.

EnCom Polymers, Inc.

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