

EnLon 643GF

Polyamide 6



Product Description					
43% Glass 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	30,000	psi	207	MPa
Tensile Elongation at Break	ASTM D638	3	%	3	%
Flexural Modulus	ASTM D790	1,500,000	psi	10,345	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	1.49	sp gr	1.49	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.002	in/in	0.002	mm/mm
Filler Content		43	%	43	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	390	°F	199	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	400	°F	204	°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 - 540	°F		
Middle Barrel Temperatures		510 - 550	°F		
Front Barrel Temperatures		520 - 570	°F		
Nozzle Temperature		540 - 570	°F		
Melt (processing) Temperatures		500 - 570	°F		
Mold Temperatures		160 - 210	°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.