

EnLon PX50GF

Amorphous Nylon



Product Description					
50% Glass Filled, Amorphous Nylon					
General Properties					
Appearance	Black				
Processing Methods	Injection Molding				
Applications	Suitable for use as Metal Replacement				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	37,700	psi	260	MPa
Tensile Modulus	ASTM D638	2,940,000	psi	20276	MPa
Tensile Elongation at Break	ASTM D638	2.0	%	2.0	%
Flexural Modulus	ASTM D790	2,670,000	psi	18,414	MPa
Flexural Strength	ASTM D790	56,600	psi	390	MPa
Notched Izod Impact (73°F)	ASTM D256	2.1	ft-lb/in	112	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.65	sp gr	1.65	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.004	in/in	0.004	mm/mm
Rockwell Hardness (R-Scale)	ASTM D785	111R		111R	
Filler Content		50.0	%	50.0	%
Flame Rating 0.063	UL 94	HB		HB	
Volume Resistivity	ASTM D257	1.0 E+15	ohms·cm	1.0 E+15	ohms·cm
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	451	°F	233	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	433	°F	223	°C
Injection Molding		Value			
Drying Temperature		175	°F		
Drying Time		2.0 - 12.0	hrs		
Suggested Maximum Moisture		0.02	%		
Suggested Shot Size		25 - 75	%		
Rear Barrel Temperatures		500 - 540	°F		
Middle Barrel Temperatures		510 - 550	°F		
Front Barrel Temperatures		520 - 560	°F		
Nozzle Temperature		520 - 560	°F		
Melt (processing) Temperatures		520 - 560	°F		
Mold Temperatures		250 - 285	°F		
Back Pressure		25 - 75	psi		
Screw speed		60 - 120	rpm		
Vent Depth		.001"	in		

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.