

# EnLon PX55MG

Amorphous Nylon



Product Description					
55% Glass Filled and Mineral Filled, Amorphous Nylon					
General Properties					
Appearance	Black and Natural				
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	24,076	psi	166	MPa
Tensile Modulus	ASTM D638	3,730,000	psi	25724	MPa
Tensile Elongation at Break	ASTM D638	1	%	1	%
Flexural Modulus	ASTM D790	3,180,000	psi	21,931	MPa
Flexural Strength	ASTM D790	41,900	psi	289	MPa
Notched Izod Impact (73°F)	ASTM D256	2.8	ft-lb/in	150	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.72	sp gr	1.72	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.005	in/in	0.005	mm/mm
Filler Content		55.0	%	55.0	%
Flame Rating 0.063	UL 94	HB		HB	
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	457	°F	236	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	441	°F	227	°C
Injection Molding		Value			
Drying Temperature		248	°F		
Drying Time		2.0 - 12.0	hrs		
Suggested Maximum Moisture		0.02	%		
Rear Barrel Temperatures		518	°F		
Middle Barrel Temperatures		527	°F		
Front Barrel Temperatures		536	°F		
Nozzle Temperature		536	°F		
Mold Temperatures		248 - 284	°F		
Screw speed		60 - 150	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.