

EnLon F0PX30GF

Amorphous Nylon



Product Description					
30% Glass Filled, Flame Retardant, Amorphous Nylon					
General Properties					
Appearance	Black Color Only				
Processing Methods	Injection Molding				
Applications	Highly Engineered FR Polymer suitable for Die Cast Replacement				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Modulus	ASTM D638	1,750,000	psi	12069	MPa
Tensile Elongation at Break	ASTM D638	2	%	2	%
Flexural Modulus	ASTM D790	1,680,000	psi	11,586	MPa
Flexural Strength	ASTM D790	41,500	psi	286	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	1.46	sp gr	1.46	sp gr
Melt Flow 275°C/2.16 kg	ASTM D1238	41.0	g/10min	41.0	g/10min
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.006	in/in	0.152	mm/mm
Filler Content		30.0	%	30.0	%
Flame Rating 0.063	UL 94	V-0		V-0	
Water Absorption	ASTM D570	0.20	%	0.20	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 66 psi	ASTM D648	459	°F	237	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	435	°F	224	°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.

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