

EnLon PX30GF

Amorphous Nylon



Product Description					
30% 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	26,000	psi	179	MPa
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	1.6	ft-lb/in	85	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	40.0	g/10min	40.0	g/10min
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.0	in/in	0	%
Filler Content		30.0	%	30.0	%
Flame Rating 0.063	UL 94	HB		HB	
Water Absorption 73F (23C), Equil (50%) RH, 73°F	ASTM D570	1.10	%	1.10	%
Water Absorption 73F (23C), sat	ASTM D570	0.14	%	0.14	%
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	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.