

# EnLon PX7008

Amorphous Nylon



Product Description					
Amorphous Nylon for film applications					
General Properties					
Appearance	Natural				
Processing Methods	Injection Molding				
Applications	Film extrusion				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	14,500	psi	100	MPa
Tensile Modulus	ASTM D638	700,000	psi	4828	MPa
Tensile Elongation at Break (Film)	ASTM D638	75.0	%	75.0	%
Flexural Modulus	ASTM D790	650,000	psi	4,483	MPa
Flexural Strength	ASTM D790	24,000	psi	166	MPa
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.19	sp gr	1.19	sp gr
Melt Flow 275°C/2.16 kg	ASTM D1238	2.0	g/10min	2.0	g/10min
Water Absorption Water Immersion Equilibrium/20°C	ASTM D570	5.80	%	5.80	%
Water Absorption 65% RH Equilibrium	ASTM D570	3.10	%	3.10	%
Thermal Properties	Test Method	English Units		S.I. Units	
Glass Transition Temperature	ASTM D648	227	°F	108	°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	440 - 460 °F				
Middle Barrel Temperatures	450 - 470 °F				
Front Barrel Temperatures	460 - 480 °F				
Die Head Temperature	460 - 480 °F				
Melt (processing) Temperatures	460 - 480 °F				
Maximum Processing Temperature	590 °F				
Notes: Suggested "start-up" melt temperature should be in the minimum range 240C-250C (464F to 482F). If lower melt temperatures are required, machine temperatures should be reduced after "start-up" while carefully monitoring drive power and head pressure.					

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.