

EnLon 66HSL

Polyamide 66



Product Description					
Heat Stabilized, Internally Lubricated Nylon 66					
General Properties					
Appearance	Black, Natural or Colors				
Processing Methods	Injection Molding				
Applications	Automotive, Material Handling, Industrial				
Dry As Molded					
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	12,000	psi	83	MPa
Tensile Elongation at Break	ASTM D638	45	%	45	%
Flexural Modulus	ASTM D790	440,000	psi	3,034	MPa
Notched Izod Impact (73°F)	ASTM D256	1.0	ft-lb/in	53	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.14	sp gr	1.14	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	0.014	in/in	0.014	mm/mm
Mold Shrink Xverse	ASTM D955	0.014	in/in	0.014	mm/mm
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 264 psi	ASTM D648	316	°F	158	°C
Conditioned 50% RH					
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	8,000	psi	55	MPa
Tensile Elongation at Break	ASTM D638	105	%	105	%
Flexural Modulus	ASTM D790	190,000	psi	1,310	MPa
Notched Izod Impact (73°F)	ASTM D256	2.0	ft-lb/in	107	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.14	sp gr	1.14	sp gr
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 264 psi	ASTM D648	316	°F	158	°C
Injection Molding		Value			
Drying Temperature		175	°F		
Drying Time		2.0 - 4.0	hrs		
Maximum Drying Time		4.0	hrs		
Suggested Maximum Moisture		0.02	%		
Rear Barrel Temperatures		480 - 530	°F		
Middle Barrel Temperatures		500 - 550	°F		
Front Barrel Temperatures		520 - 570	°F		
Nozzle Temperature		520 - 570	°F		
Melt (processing) Temperatures		520 - 570	°F		
Mold Temperatures		120 - 190	°F		

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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.

EnCom Polymers, Inc.

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