

EnLon 1215CF

Polyamide 12



Product Description					
15% carbon fiber reinforced Nylon 12					
General Properties					
Appearance	Black				
Processing Methods	Injection Molding				
Applications	Automotive, Material Handling, Industrial				
Mechanical Properties	Test Method	English Units		S.I. Units	
Tensile Strength @ Yield	ASTM D638	11,000	psi	76	MPa
Tensile Elongation at Break	ASTM D638	3	%	3	%
Flexural Modulus	ASTM D790	792,500	psi	5,466	MPa
Flexural Strength	ASTM D790	19,000	psi	131	MPa
Notched Izod Impact (73°F)	ASTM D256	2.2	ft-lb/in	117	J/m
Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.09	sp gr	1.09	sp gr
Mold Shrink	ISO 294.4	0.3-0.6	%	0.3-0.6	%
Filler Content		15	%	15	%
Water Absorption	ASTM D570	<0.05	%	<0.05	%
Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 264 psi	ASTM D648	317	°F	158	°C
Injection Molding		Value			
Drying Temperature		180	°F		
Drying Time		2.0 - 4.0	hrs		
Maximum Drying Time		4.0	hrs		
Suggested Maximum Moisture		0.02	%		
Rear Barrel Temperatures		470 - 500	°F		
Middle Barrel Temperatures		480 - 510	°F		
Front Barrel Temperatures		490 - 520	°F		
Nozzle Temperature		490 - 520	°F		
Melt (processing) Temperatures		470 - 530	°F		
Mold Temperatures		120 - 200	°F		
Back Pressure		20 - 60	psi		
Screw speed		60 - 120	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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