

EnLon 6IM20UW

Polyamide 6



Product Description			
Super Impact Modified, UV Stabilized, Weather Resistant Nylon 6			
General Properties			
Appearance	Black, Natural or Colors		
Processing Methods	Injection Molding		
Applications	Automotive, Material Handling, Industrial		
Mechanical Properties	Test Method	English Units	S.I. Units
Tensile Strength @ Yield	ASTM D638	6,800 psi	47 MPa
Tensile Elongation at Break	ASTM D638	95 %	95 %
Flexural Modulus	ASTM D790	245,000 psi	1,690 MPa
Flexural Strength	ASTM D790	9,500 psi	66 MPa
Notched Izod Impact (73°F)	ASTM D256	19.0 ft-lb/in	1015 J/m
Notched Izod Impact (-40°F)	ASTM D256	7.0 ft-lb/in	374 J/m
Physical Properties	Test Method	English Units	S.I. Units
Specific Gravity	ASTM D792	1.07 sp gr	1.07 sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	.018 - .022 in/in	0.457 - 0.559 mm/mm
Thermal Properties	Test Method	English Units	S.I. Units
Heat Deflection Temperature @ 264 psi	ASTM D648	140 °F	60 °C
Injection Molding		Value	
Drying Temperature		175	°F
Drying Time		2.0 - 4.0	hrs
Maximum Drying Time		4.0	hrs
Suggested Maximum Moisture		0.2	%
Rear Barrel Temperatures		520 - 550	°F
Middle Barrel Temperatures		530 - 560	°F
Front Barrel Temperatures		540 - 570	°F
Nozzle Temperature		530 - 560	°F
Melt (processing) Temperatures		540 - 570	°F
Mold Temperatures		100 - 200	°F

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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