EnLon 6616GFIM

Polyamide 66

Product Description
16% Glass Filled, Impact Modified Nylon 66

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	14,000	psi	97	MPa
Tensile Elongation at Break	ASTM D638	15	%	15	%
Flexural Modulus	ASTM D790	550,000	psi	3,793	MPa
Flexural Strength	ASTM D790	22,000	psi	152	MPa
Notched Izod Impact (73°F)	ASTM D256	4.0	ft-lb/in	214	J/m

Physical Properties	Test Method	English Units		S.I. Units	
Specific Gravity	ASTM D792	1.19	sp gr	1.19	sp gr
Mold Shrink - Flow: 0.126 in (3.20 mm)	ASTM D955	.005 - .008	in/in	0.127 - 0.203	mm/mm
Filler Content		16	%	16	%
Flame Rating 0.062	UL 94	HB		HB	
Water Absorption	ASTM D570	0.01	%	0.01	%

Thermal Properties	Test Method	English Units		S.I. Units	
Heat Deflection Temperature @ 264 psi	ASTM D648	428	°F	220	°C

Injection Molding	Value	
Drying Temperature	165 - 200	°F
Drying Time	2.0 - 4.0	hrs
Maximum Drying Time	4.0	hrs
Suggested Maximum Moisture	0.02	%
Rear Barrel Temperatures	460 - 540	°F
Middle Barrel Temperatures	460 - 540	°F
Front Barrel Temperatures	470 - 565	°F
Nozzle Temperature	470 - 565	°F
Melt (processing) Temperatures	485 - 565	°F
Mold Temperatures	160 - 220	°F