

**InStruc® PA66MIN30FRHSUV**

Americhem - Polyamide 66

**General Information**
**Product Description**

30% MINERAL FILLED, HEAT STABILIZED, UV STABILIZED, FLAME RETARDANT, NYLON 6/6

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Mineral, 30% Filler by Weight		
Additive	• Flame Retardant	• Heat Stabilizer	• UV Stabilizer
Features	• Flame Retardant	• Halogenated	• UV Stabilized
	• Good Dimensional Stability	• Heat Stabilized	
Uses	• Automotive Applications	• Engineering Parts	• Office Automation Equipment
	• Closures	• Household Goods	• Outdoor Applications
	• Consumer Applications	• Industrial Applications	• Window & Door Components
	• Electrical/Electronic Applications	• Industrial Parts	
Forms	• Pellets		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.75		ASTM D792
Molding Shrinkage - Flow	7.0E-3 to 0.011	in/in	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	8500	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	0.50	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	420	°F	ASTM D648
<b>Flammability</b>			
Flame Rating (0.06 in)	V-0		Internal Method

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	500 to 575	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

