

InStruc® PA66MIN36IMHS

Americhem - Polyamide 66

General Information
Product Description

36% MINERAL FILLED, IMPACT MODIFIED, HEAT STABILIZED NYLON 6/6

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Mineral, 36% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier
Features	• Good Dimensional Stability • Heat Stabilized • High Impact Resistance • Impact Modified • Low Temperature Toughness
Uses	• Automotive Applications • Closures • Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Household Goods • Industrial Applications • Industrial Parts • Office Automation Equipment • Outdoor Applications • Window & Door Components
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.41		ASTM D792
Molding Shrinkage - Flow	7.0E-3 to 0.011	in/in	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Mechanical			
Tensile Modulus	850000	psi	ASTM D638
Tensile Strength	10000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Flexural Strength	16000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	2.5	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	176	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
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

