

InStruc® PA6IMLT

Americhem - Polyamide 6

General Information
Product Description

LOW TEMPERATURE, IMPACT MODIFIED NYLON 6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier		
Features	• Good Dimensional Stability • 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	1.06		ASTM D792
Molding Shrinkage - Flow	0.013 to 0.015	in/in	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
Mechanical			
Tensile Strength	7000	psi	ASTM D638
Tensile Elongation (Yield)	> 50	%	ASTM D638
Flexural Modulus	250000	psi	ASTM D790
Flexural Strength	7000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	15	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	No Break		ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	130	°F	ASTM D648
Electrical			
Surface Resistivity	> 1.0E+17	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	500 to 575	°F
Mold Temperature	130 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

