

## Technical Data Sheet

### 6AN-162

#### Impact Modified Polyamide 6

## Nirumand Polymer



Nirumand Polymer Co.  
Filled & Reinforced Engineering Plastics

#### Product Description

6AN-162 is polyamide 6 resin offering good balance of mechanical properties and toughness. This compound provides better impact resistance compared to typical polyamide 6 resin. This product is used in automotive applications, home appliance industry, electrical goods and other utility products. This grade is designed to be processed in conventional injection molding process.

#### General Properties

Material Status	•Commercial: Active
Forms	•Pellets
Processing Method	•Injection molding
Color	•Natural

Physical Properties	Value	Unit	Test Method
Density	1.1	gr/cm <sup>3</sup>	ISO 1183
Shrinkage	1.35	%	Internal
Mechanical Properties	Value	Unit	Test Method
Tensile Strength @ Yield	60	MPa	ISO 527
Tensile Strength @ Break	.....	MPa	ISO 527
Elongation @ Break	≥ 20	%	ISO 527
Flexural Modulus	2200	MPa	ASTM D790
Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	18	kJ/m <sup>2</sup>	ISO 180
Notched Izod Impact (-20°C)	12	kJ/m <sup>2</sup>	ISO 180
Thermal Properties	Value	Unit	Test Method
Heat Deformation Temperature (1.80 Mpa)	70	°C	ASTM D2240

◆ Values shown are average & are not to be considered as product specifications.

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