

## Technical Data Sheet

### 6AN-114

#### Polyamide 6

## Nirumand Polymer



Nirumand Polymer Co.  
Filled & Reinforced Engineering Plastics

#### Product Description

6AN-114 is polyamide 6 resin offering high mechanical properties, stiffness and thermal resistance. This product is used in housewares, 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	1.11	gr/cm <sup>3</sup>	ISO 1183
Shrinkage	1.4-1.6	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength @ Yield	75	MPa	ISO 527
Tensile Strength @ Break	45	MPa	ISO 527
Elongation @ Break	≥ 25	%	ISO 527
Flexural Modulus	2200	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	2	kJ/m <sup>2</sup>	ISO 180

Hardness	Value	Unit	Test Method
Durometer Hardness	80	Shore D	ASTM D2240

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

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