



## Kimalloy 3175

### Polyamide 6 Alloy

#### Product Description

Kimalloy 3175 is an impact modified polyamide that is a blend of polyamide with a special kind of rubber. This grade has some additives make it resistant against degradation during processing. Kimalloy 3175 is suitable for producing automotive parts and sport tools.

Applications:

Automotive parts, Industrial Parts

#### General

Material Status	• Commercial: Active
Availability	• Middle East, Asia
Additive	• Antioxidant
Features	• Good process ability
Uses	• Automotive parts • Industrial parts
Forms	• Pellets
Color	• White
Packaging	• 25 kg PE bag

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05 ± 0.02	-	ISO 1183
Ash Content (600°C)	< 0.3	%	ISO 3451

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (yield)	40 ± 3	MPa	ISO 527
Tensile Strain (Break)	> 50	%	ISO 527
Charpy unnotched Impact Strength at 23°C	N.B	kJ/m <sup>2</sup>	ISO 179
Charpy unnotched Impact Strength at -30°C	N.B	kJ/m <sup>2</sup>	ISO 179
Charpy notched Impact Strength at 23°C	> 75	kJ/m <sup>2</sup>	ISO 179

Thermal	Nominal Value	Unit	Test Method
HDT (0.45 MPa)	130	°C	ISO 75

#### Injection

As a guide the following temperature profile and other condition is recommended

Zone 1	Zone 2	Zone 3	Zone 4	Die	Mold Temperature
220-230°C	230-240°C	240-250°C	250-260°C	250-260°C	60-70°C
Drying Temperature			Drying Time		
75-80 °C			1-2 hr.		

#### Storage & Shelf Life

Sacks should be stored in dry/closed condition and protect from sunlight.

Shelf life at proper storage is at least 18 months from production date, but in case of a long storage time, potential moisture pick-up needs to be eliminated by drying before injection.

#### Note

- Test results have been achieved in lab condition. Miss handling may give different result and sometimes outside of the standard
- The specifications given are the guidelines only.
- Above compound is suitable to run on different machines; however some adjustments may be required on individual machine.
- The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warrantee what so ever, after processing

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