



## Kimalloy 3182

### Polyamide 6 Alloy

#### Product Description

Kimalloy 3182 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 3182 is suitable for producing automotive parts and sport tools.

Applications:

Automotive parts

#### General

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05 ± 0.02		ISO 1183
Ash Content (600°C)	< 0.1	%	ISO 3451

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (yield)	38 ± 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	> 40	kJ/m <sup>2</sup>	ISO 179
Hardness (5kg)	65 ± 3	Shore D	ISO 868

#### 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	50-70°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 warranty what so ever, after processing