



## Kimalloy 3083

### Polypropylene Compound

#### Product Description

Kimalloy 3083 is a block copolymer polypropylene blended with a special elastomer. Compounding polypropylene with rubber makes increase in impact resistance, flexibility, and strain at break and simultaneously it decreases the strength and the stiffness of the compound. Kimalloy 3083 is used in injection molding.

Applications:

Automotive parts

#### General

Material Status	• Commercial: Active
Availability	• Middle East, Asia
Features	• Good Processability
Uses	• Automotive parts
Color	• Natural
Forms	• Pellets
Packaging	• 25 kg PE bag • 1 ton jumbo bag

Physical	Nominal Value	Unit	Test Method
Melt Flow Index (230°C, 2.16kg)	8.0 ± 1.0	g/10min	ISO 1133
Specific gravity	0.90 ± 0.02	-	ISO 1183

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12 ± 2	MPa	ISO 527
Tensile Strain (Break)	> 300	%	ISO 527
Charpy unnotched Impact Strength at 23°C	N.B	kJ/m <sup>2</sup>	ISO 179
Charpy notched Impact Strength at 23°C	N.B	kJ/m <sup>2</sup>	ISO 179
Hardness (5kg)	41 ± 4	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
160-170°C	170-180°C	180-190°C	190-200°C	200-210°C	40-60°C
Drying Temperature				Drying Time	
60-70 °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 24 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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